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AGRICULTURAL OUTLOOK







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The contents of this magazine have been approved by the World Agricultural Outlook Board, and the summary was released August 20, 1991. Price and quantity forecasts for crops are based on the August 12 World Agricultural Supply and Demand Estimates.

Materials may be reprinted without permission. Agricultural Outlook is printed monthly except for the January-February combined issue.

Annual subscription: \$26 U.S., \$32.50 foreign (includes Canada). Order from ERS-NASS, P.O. Box 1608, Rockville, MD 20849-1608. Or call, toll free, 1-800-999-6779 (8:30-5:00 E.T.). Make check payable to ERS-NASS.

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The next issue of Agricultural Outlook (AO-179) is scheduled for mailing on October 7, 1991. If you do not receive AO-179 by October 25, call the managing editor at (202) 219-0494 (be sure to have your mailing label handy). The full text of AO-179 will also be distributed electronically; additional information on this is available at (202) 447-5505.

News of Weather Impacts, Corn and Soybean Output, Soviet Import Policy, and Canada's New Farm Safety Net

eather is figuring prominently in this year's U.S. crop outlook. This month's Agricultural Outlook reports on this and other major sources of variability in commodity prices and farm income, as well as some stabilizing factors at work in the policy arena illustrated by the CRP for U.S. producers and Canada's new GRIP program,

Dry weather, particularly in the eastern Corn Belt, stressed the corn and soybean crops during July and early August, causing crop conditions to deteriorate substantially. Acreage for both crops is up compared with 1990/91, but because of lower yield prospects, production is expected to decline, and prices are projected up over last year's levels.

Weather is also a major factor in a second successive year of strong fruit prices—both for growers and at the retail level—as the effects of last December's freeze continue. In contrast to com, soybeans, and fruits, the U.S. cotton crop is projected to be the largest since 1937, and the U.S. sugar crop may reach a record high this year—7.3 million tons. A recovery in Louisiana sugar acreage of 41 percent will contribute to a 5.3-percent increase in U.S. harvested acreage.

Deteriorated crop conditions have caused uncertainty in feed markets, which will affect livestock and poultry producers. Continuing uncertainty about feed costs could erode the high rate of herd expansion predicted earlier by the June Hogs and Pigs report and covered in last month's Agricultural Outlook.

The second half of 1991 is likely to see larger commercial beef production, greater hog production, and lower prices for both. Consumers can expect some relief from last year's retail price in-



creases of 8-15 percent for meats, to a more moderate 1-4 percent as the larger production moves to retail markets.

Weather isn't the only factor creating uncertainty for grain producers. Over the past 20 years, the USSR has become a major market for U.S. grain as well as a tremendous source of variability for U.S. exports. And recently, the Soviets have increasingly sought U.S. export assistance.

The Conservation Reserve Program (CRP) provides a source of income stability to producers when they enroll highly erodible land in the program for a period of 10-15 years. The importance of income stability is enhanced when fallow land that generates no income in some years is enrolled in the CRP.

The contents of this month's issue of Agricultural Outlook were prepared prior to the recent events that took place in the Soviet Union.

However, when the source of farm income changes from crop sales to CRP rental payments, and farmers reduce expenditures for inputs such as fertilizer and fuel, local economies can be affected. In most areas, the effects are minor when farming is a small sector in a diversified local economy. But in areas of high farm dependency and large CRP enrollment, the effect of altered spending patterns is likely to be more pronounced.

Canada's new GRIP program—the Gross Revenue Insurance Plan—is receiving considerable attention this year. The GRIP program provides a safety net in the form of revenue support to producers of grains and oilseeds when prices or yields are low. Early indications point to high enrollment by crop producers in the Prairie Provinces.

The U.S. economy appears to be recovering from the recent recession. By the end of July, the index of leading indicators had risen for 5 months, employment had stabilized, and real GNP had grown for the first time since the third quarter of 1990—all signs favoring economic recovery. With off-farm income important to many farmers, trends in the rural and urban nonfarm job markets are watched closely by economists and policymakers.

Despite recent economic indicators, the economy is still operating at low levels, and although employment has stabilized, unemployment is still relatively high. Prospects for a less-than-robust recovery are reflected in a July survey of rural appraisers, who expect more modest increases in farmland values in the coming 12 months. Appraisers expect an average increase of less than 1 percent for U.S. farmland values during July 1991-92, compared with a reported increase of about 3 percent over the past 12 months.



Field Crops Overview

Dry conditions in the U.S., particularly in the eastern Corn Belt, stressed the corn and soybean crops during July and early August, causing crop conditions to deteriorate substantially. Acreage for both crops is up compared with 1990/91, but because of lower yield prospects, corn production is expected down about 6.5 percent and soybean production down almost 3 percent from a year earlier.

Foreign corn production is projected at a record 281 million tons, up 4 percent from the 1990/91 crop. Foreign demand for corn continues to be weak in 1991/92 due to sharp competition from foreign barley and wheat. U.S. corn exports are projected down 6 percent from a year ago, and the U.S. corn market share is forecast to slip from 78 to 76 percent.

Despite reduced soybean yield prospects. U.S. crush is forecast at a record 1.2 billion bushels in 1991/92 and soy complex exports are expected to increase, in part because of a sharp decline in 1990/91 Brazilian production. Exports of domestic soybeans are projected up 9 percent.

Below-Normal Rainfall Stresses Corn Crop

U.S. corn yields for 1991/92 are projected at 107.8 bushels per acre, 9 percent below last year's 118.5 bushels. Production is forecast at 7.4 billion bushels, about 6.5 percent below last year, even though harvested area, at 68.8 million acres, is projected up almost 3 percent. Because of tighter supplies, prices for the season are likely to average \$2.30-\$2.70 per bushel, compared with \$2.30 last year.

As much of the corn crop entered its critical growing period in July, dry conditions, particularly in the eastern Corn Belt, stressed the crop and caused crop conditions to deteriorate significantly. As of August 18, 47 percent of the corn crop was rated excellent or good (compared with 76 percent last year), 36 percent was rated fair, and 17 percent poor or very poor. Conditions were particularly poor in Indiana, Ohio, and Pennsylvania, where 40 percent or more of the crop was rated poor or very poor.

The U.S. corn supply is projected at 8.95 billion bushels, about 4 percent less than 1990/91's 9.28 billion. Total disappearance is projected at 7.73 billion, leaving ending stocks of 1.23 billion bushels and a stocks-to-use ratio of 15.9 percent. The ending stocks-to-use ratio for 1990/91 is estimated at 19.7 percent.

With the sorghum crop also stressed by dry weather in many areas (except Texas), the projected yield, at 57.9 bushels per acre, is 5 bushels below 1990. Harvested area is forecast up over 664,000 acres, leaving this year's crop, estimated at 565 million bushels, slightly less than a year ago. But with low carryin stocks, supplies are down 9 percent. And although use will drop due to lower projected exports, ending stocks are projected 25 percent below 1990's estimated 157 million bushels.

Mainly because of the smaller com crop, feed grain supplies in 1991/92 are expected to decline almost 4 percent from a year earlier, to 266.4 million metric tons. Total feed grain use is projected down slightly from a year earlier, resulting in a

drop in ending stocks of more than 9 million tons, and stronger prices expected for all feed grains.

Because of reduced feed grain supplies, feed use of wheat is expected to continue high, at least through the summer. Feed and residual use of wheat in 1991/92 is forecast at 350 million bushels, up 27 percent from July's estimate, but down from last year's estimated 492 million bushels.

U.S. Corn Exports & Market Share To Drop

Foreign coarse grain production in 1991/92, forecast at 582 million tons, is down from 1990/91's record of nearly 597 million. The drop in output will occur mainly in barley and rye and, to a much lesser extent, oats.

However, foreign corn production is projected at a record 281 million tons, up 4 percent from a year earlier. Foreign corn consumption is also projected up, offset by a sharp drop in barley consumption.

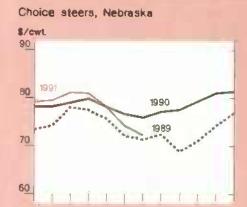
At 42 million tons, U.S. corn exports are projected down 6 percent, and U.S. market share is forecast to slip from 78 to 76 percent, the lowest since 1986/87. Weak foreign demand for corn due to sharp competition from foreign wheat and barley continues to be a problem for the U.S.

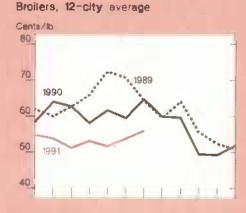
The USSR is expected to buy more barley at the expense of corn in 1991/92, reflecting large exporter supplies and the use of EC and Canadian export credits. Soviet barley imports are forecast at a record 6.5 million tons, pushing world barley trade to a record 18.6 million tons. In addition, imports of foreign feed wheat are expected to increase slightly from 1990/91, displacing corn imports, due to greater purchases by South Korea, again the primary import market for feed wheat.

Foreign corn exports are projected up 2 percent to 13 million tons. Although declines are projected for corn exports from South Africa and China, these will be offset by gains from the EC whose

Comodity Market Prices

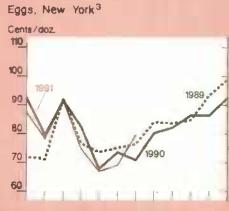
Agricultural Economy

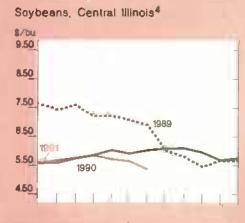




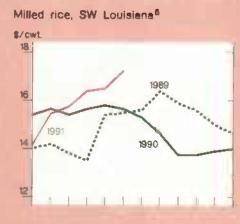


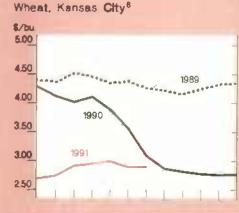


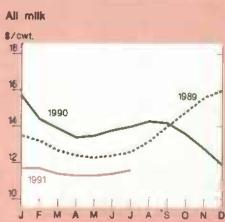


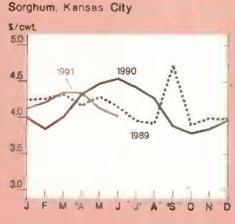


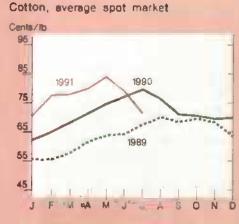












grain. ⁴No, 1 HRW.

No. 2 yellow. ²600-700 lbs medium no. 2. ³Grade A large. ⁴No. 1 yellow. ⁵U.S. No. 2. long-grain. For more information on PDF Compression and OCR visit The Paperless Office.org

	1989/90	1990/91	1991/92
		Million metric tons	
ORLD			
Wheat			
Production	538	593	551
Use	534	572	560
	96	94	105
Exports Ending stocks	121	142	132
Ending stocks	121	146	134
Production	461	470	469
Use	478	467	479
	73	57	55
Exports		75	65
Ending stocks	71	/3	05
Soybeans	407	103	104
Production	107		104
Use	104	104	
Exports	27	26	26
Ending stocks	20	19	18
NITED STATES			
Wheat			
Production	55	75	55
Use	27	37	34
Exports	34	29	30
Ending stocks	15	24	16
Com			
Production	191	202	188
Use	146	153	154
Exports	60	44	42
Ending stocks	34	39	31
Soybeans			
Production	52	52	51
Use	34	35	35
Exports	17	15	17
Ending stocks	7	9	8

Note: Exports of wheat and corn do not include intra-EC trade shipments. For trade data, the wheat year is July-June, and the soybean and corn years are October-September. Other data are on a U.S. marketing year basis, 1990/91 estimated, 1991/92 projected.

crop is expected to recover from a poor 1990/91 season. Exports from Argentina are projected up marginally, while Thailand's are expected to be unchanged.

U.S. Soybean Production Expected Down

Domestic soybean yields for 1991/92 are projected to be 31.8 bushels per acre, down 6.5 percent from a year earlier. Production is projected at 1.87 billion bushels, almost 3 percent below last year, even though harvested area is estimated up nearly 4 percent, to 58.7 million acres.

Like the corn crop, this year's soybean crop has been stressed by dry weather,

particularly in the eastern Corn Belt, and crop development has been ahead of normal. The weather caused soybean conditions to deteriorate during July and early August, but the decline was not as marked as for corn. Soybean demand for moisture occurs slightly later in the season, and soybean yields often recover more easily from mid-season dryness.

As of August 18, 42 percent of the crop was rated excellent or good, 41 percent fair, and 17 percent poor or very poor. At the same time last year, 56 percent fell within the excellent-or-good range. Conditions as of mid-August were particularly poor in Indiana, Kansas, Louisiana, Mississippi, and Ohio, where 25 percent or more of the crop was rated poor or very poor. Soybean prices for

the season are expected to average \$4.85-\$6.85, compared with \$5.75 last year.

Despite reduced yield prospects, 1991/92 crush is forecast at a record 1.2 billion bushels and soy complex exports are expected to increase, due partly to the 4.8-million-ton decline in 1990/91 Brazilian production. U.S. exports of soybeans are projected up 9 percent, soybean meal exports 6 percent higher, and soybean oil exports up 29 percent. Availability of export assistance will be an important determinant of U.S. soybean meal and soybean oil exports in 1991/92.

Because of the sharp drop in production, Brazil is expected to terminate soybean exports before September 1991 and is likely to import soybeans to meet domestic demand until its 1991/92 crop is harvested in the spring. These imports are expected to come primarily from the U.S., and could amount to 0.5 million tons in the 1991/92 season.

U.S. Wheat Production Forecast Down 26 Percent

U.S. wheat production is forecast at 2 billion bushels, down 26 percent from last year. Total area harvested is forecast at 58.1 million acres. a 16-percent drop from last year. This is mainly due to a sharply higher ARP, relatively low prices at planting time, and attractive cattle prices that encouraged grazing on area planted to wheat instead of harvesting for grain.

Projected 1991/92 production of the hard red spring and durum classes is down slightly from a year earlier, while projected hard red winter, white, and soft red winter production is down markedly. Hard red winter production, affected by dryness in the Southern Plains, is forecast at 889 million bushels, 26 percent less than 1990. White wheat production is forecast at 218 million bushels, down 30 percent from a year ago.

Production of soft red winter wheat is forecast at 335 million bushels, down 39 percent from a year earlier. The crop was affected by diseases such as glume

blotch, which keeps wheat heads from filling properly. Areas most affected by these diseases are southern Illinois, southern Indiana, and most of Missouri and Arkansas. Also affected are Georgia, east Texas, Kentucky, Ohio, North and South Carolina, Tennessee, and Virginia. As a result, average test weights for soft red, normally 57-58 pounds per bushel, will likely be lower.

Because of low test weights, purchasers of the soft red varieties are altering their standards. Some importers, such as China, have shifted from soft red into hard red winter wheat. A survey of 10 elevator companies suggests large discounts for each bushel under 54-55 pounds.

In contrast, many spring wheat and durum growers have enjoyed good soil moisture over much of the spring and summer. Yields of hard red spring and durum, harvested mostly in August, are estimated near record highs.

Largely because of lower production overall, the farm price for wheat is forecast at \$2.60-\$3.00 per bushel, compared with \$2.61 a year ago. Domestic wheat use is projected down about 8 percent, but exports are estimated up slightly, leaving total use down 3 percent. Total use will still exceed production, and wheat stocks are projected down almost 34 percent, at 574 million bushels.

The Export Enhancement Program and availability of additional credits will play an important role in maintaining U.S. exports. But the U.S. market share is expected to be off slightly in 1991/92, falling from 30 to 28 percent.

World Wheat Trade Likely To Rise

Foreign wheat production is projected at 495 million tons, more than 23 million tons below the 1990/91 record. Much of the drop is in China and the USSR, but

production in several other importing countries is up. Although output is projected down in Australia and Argentina, large carryin stocks in Canada and the EC, and greater production in the EC are keeping major competitors' supplies high. In addition, large crops are also expected among some smaller exporters, including some East European countries, Turkey, and Saudi Arabia.

Larger production among some importers is slowing growth of import demand. Imports in the key market of North Africa are expected to drop sharply. However, world wheat trade is forecast to expand 12 percent in 1991/92. But much of this growth depends on increased purchases by the Soviet Union and China.

Elsewhere, trade is projected to rise only 1 percent. Although a sharply reduced 1991 Soviet crop and lower state procurements may push total imports up, credit availability will remain critical, especially for exporter market shares.

Because of large supplies and available credit, Canada and the EC are projected to have record wheat exports in 1991/92. Smaller exporters are expected to boost shipments 33 percent, and exports from Argentina are also projected up. U.S. exports are forecast up slightly from the 1990/91 season, at 30 million tons, even though the U.S. market share will slip.

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Rice Production Expected Up

Domestic rice production in 1991/92 is forecast at 157 million cwt, up slightly from a year earlier, reflecting small increases in both harvested area and yield. Yields are pegged at 5,544 pounds per acre, while harvested area is estimated at 2.83 million acres, both up less than 1 percent from a year earlier. The increase in harvested area likely will occur in Arkansas and Missouri, offsetting declines in Louisiana. Mississippi, Texas, and California.

Unfavorably wet weather during the spring reduced plantings in parts of the Delta, while reduced supplies of water for irrigation due to the drought restricted plantings in California.

Forecast yields are up in Arkansas and Missouri; down in Louisiana, Mississippi, and Texas; and unchanged in California.

U.S. rice supplies in 1991/92 are forecast at 188.7 million cwt, up 1 percent from a year earlier. With a projected 5-percent increase in domestic use and slightly lower exports, carryout stocks are expected to total 25.7 million cwt, slightly below a year earlier, and the fourth consecutive year of a stocks-to-use ratio below 17 percent.

U.S. Cotton Crop Largest Since 1937

Domestic cotton production for 1991/92, estimated at 17.6 million bales, is up 14 percent from last year, and the largest crop since 1937. The increase primarily reflects larger harvested area. Yields are estimated at 630 pounds per harvested acre, down slightly from last year, while harvested area is estimated at 13.4 million acres, up 14 percent from 1990/91. The acreage increase largely reflects a lower ARP and increased planting of cotton on flex acres.

As of August 18, 92 percent of the cotton crop was setting bolls, only 2 percentage points below average. During July, the crop rating improved steadily, and 65 percent of the crop was rated good to excellent by August 18, compared with 51 percent last year.

Total use is expected to reach 15.8 million bales in 1991/92. Domestic mill consumption, projected at 8.8 million bales, is expected to exceed the 1990/91 level by 200,000 bales. Exports, however, are expected to be 7 million bales, down from the previous season's 7.9 million. U.S. ending stocks are projected at 4.1 million bales.

Recent higher prices have encouraged foreign production. Early projections place 1991/92 foreign cotton production at 73.5 million bales, 3 percent above a year earlier, and the second largest everjust under the 1984/85 record. Much of the gain is anticipated in China and India, and Pakistan expects a record crop. Soviet cotton outturn is forecast below 1990/91 because of smaller planted area, although its yields may respond favorably to additional incentives.

Export competitors likely will consume more of their own rising production while still increasing exports. Foreign exports are forecast at 16.6 million bales, up 7 percent from a year earlier. With stronger competition, U.S. export share is expected to drop to a more normal 30 percent. [Joy Harwood (202) 219-0840 and Carolyn Whitton (202) 219-0824]

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Livestock, Dairy & Poultry Overview

The July 1 beef cow and beef replacement heifer inventories were up 2 and 4 percent from a year earlier. Commercial beef production is expected to expand 3 to 4 percent in the second half of 1991 from the low level of a year earlier due to a larger July 1 cattle-on-feed inventory.

Adverse weather during July increased the uncertainty about feed costs, which could dampen the herd expansion indicated in the June Hogs and Pigs report. Greater pork production and lower hog prices are likely late this year and in early 1992.

Commercial milk use during the second half of 1991 is expected to recover from the weakened levels recorded in the first half of the year. For all of 1991, commercial use is forecast to reach a record 140 billion pounds, less than 1 percent above 1990.

Beef Breeding Herd Expansion Continues

The U.S. cattle inventory on July 1 was 2 percent above a year ago, and the pretiminary 1991 calf crop was estimated up 1 percent. All the expansion was in the beef herd, while the dairy cow inventory declined.

Beef cows and beef replacement heifers increased 2 and 4 percent from a year ago. Further expansion of the beef breeding herd is likely over the next several years due to lower, but continued favorable, returns for cow-calf operators. However, the highest returns for this cattle cycle likely have been attained. The calf crop also should increase for the next several years. The midyear feeder cattle supply of steers and heifers over 500 pounds outside feedlots was up 1 percent.

The number of cattle on feed in the 13 quarterly reporting states on July 1 was up 8 percent from a year ago, the largest for that date since 1978. A larger cattle-on-feed inventory points toward expanding fed cattle marketings in the third and fourth quarters. Third-quarter marketing intentions are 6.04 million head, up 5 percent from a year earlier. However, fed slaughter in July was below expectations and less than a year earlier when adjusted for an extra day of slaughter in July 1991.

Placements on feed during the second quarter were down 4 percent and marketings off 2 percent from a year ago. Steers and heifers showed the greatest increase for the 1,100-pound-and-heavier weight group, up 38 and 93 percent from a year ago. But lighter weight groups placed on feed declined during the spring quarter due to favorable pasture and range conditions coupled with high stocker cattle prices.

Higher Beef Production Eases Retail Prices

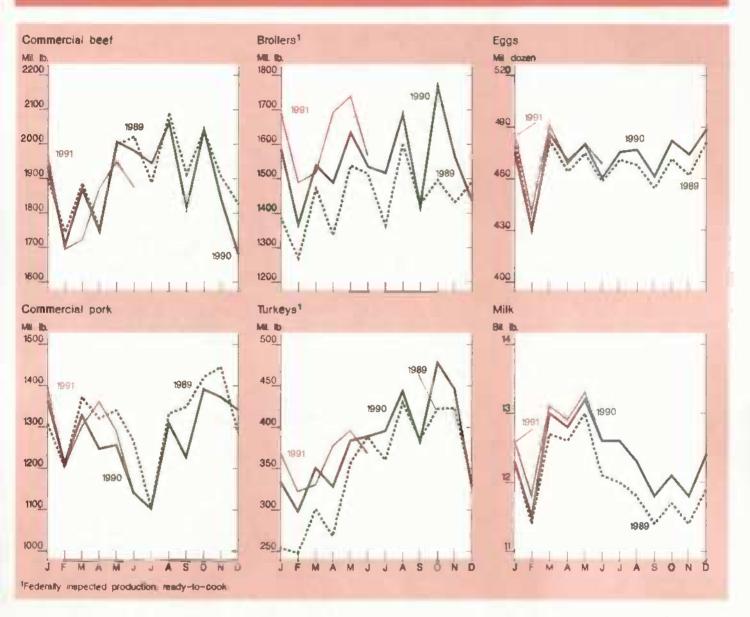
Commercial beef production in secondhalf 1991 is expected to expand 3 to 4 percent from the low level of last year. Commercial cattle slaughter numbers are forecast to show a slightly smaller expansion as dressed weights continue at record levels.

Commercial cattle slaughter and beef production during the first quarter of this year likely marked the lowest level for the expansion phase of this cattle cycle. The current cycle began in 1989 and will probably peak in the mid-90's when the inventory of all cattle and calves is highest for the cycle.

Choice steer prices averaged \$72.16 per cwt in July, about 5 percent below a year earlier and 11 percent below the average in March—the highest month this year to date. With expanding beef, pork, and poultry production forecast for the remainder of this year, the March and April cattle and beef prices are likely the highs for 1991.

Livestock & Product Output

Agricultural Economy



Retail Choice beef prices eased during July to \$2.88 per pound compared with \$2.96 in May but were up from \$2.80 in July 1990. July's farm-to-retail price spread remained about the same as a month earlier, at \$1.32 per pound, and up over 5 cents from May. The wholesale-retail spread widened and the farm-wholesale spread declined as wholesale boxed and fed steer prices dropped faster than retail prices. Further retail price declines are anticipated in coming months as lower cattle prices are passed on to consumers.

Broiler Prices Lower, Output Growth Slows

Fourth-quarter 1991 net returns for broiler producers are expected to be slightly below breakeven, down from 3 cents a pound a year earlier. Higher feed cost and weaker broiler prices will continue to yield net returns below a year earlier during second-half 1991 and most of 1992, contributing to a slower expansion in 1992. Third-quarter net returns are estimated to average 4-5 cents a pound, compared with nearly 10 cents a year ago.

Fourth-quarter broiler production growth probably will slow to 4-5 percent above a year earlier, down from an 8-percent expansion a year ago, reflecting below-year-earlier net returns during the first half of 1991. Third-quarter production is estimated to increase 6-7 percent from a year ago.

Large supplies are expected to hold wholesale broiler prices below a year earlier in the second half of 1991. Broiler prices during the third and fourth quarters are forecast to average 50-54 cents and 44-50 cents per pound. For all of 1991, broiler prices will likely average 4-5 cents below the 55-cent average of a year ago.

Retail prices for whole fryers are expected to continue in the high 80's per pound during second-half 1991, with quarterly averages remaining below a year earlier. Retail prices in the second quarter averaged slightly over 88 cents, almost 3 cents below a year ago.

Turkey Production Slows, Stocks at Record

Turkey stocks continue at a record high. On July 1 stocks totaled 499 million pounds, almost 4 percent above a year earlier. Whole bird stocks were up nearly 13 percent from a year earlier, but other turkey stocks dropped over 14 percent due to increased processing use.

Third-and fourth-quarter turkey production is expected to be unchanged from a year earlier. Production during 1991 will likely be up slightly less than 2 percent from a year ago, the smallest annual increase since 1984. This year's slower growth reflects grower losses experienced from December 1990 through April 1991.

Per capita turkey consumption is estimated to have grown about 5 percent in the first half of 1991. Continued growth in consumption and the slowdown in production is expected to keep stocks from becoming burdensome.

Fourth-quarter Eastern region wholesale hen prices are expected to strengthen seasonally to about 68 cents a pound. Along with expectations of an output slowdown, third-quarter Eastern region hen prices will likely rise seasonally, unchanged from the year-earlier average of 66 cents a pound.

Grower net returns improved during the second quarter to just above breakeven, aided by slightly lower feed prices than a year ago. Net returns during the third quarter are expected to remain slightly above breakeven and slightly above a year earlier. However, fourth-quarter net returns are expected to be below a year ago.

Egg Prices & Output Growth Lower

Fourth-quarter table-egg production will likely range from last year's level to 1 percent higher. Third-quarter table-egg production is expected to reach about 1.2 billion dozen, only slightly larger than a year earlier. Total egg production in the third quarter will probably reach 1.4 billion dozen, only fractionally above last year.

The table-egg flock of around 228 million hens was almost 2 percent larger on July 1 than a year ago and fractionally larger than on June 1. Increased hatching of egg-type chicks during the first half helped move the flock size above the year-earlier level. But on July 1, the egg-type hatching flock was 7 percent smaller than a year earlier, indicating lower production later this year.

The New York wholesale price for Grade A large eggs is estimated to average 77-79 cents per dozen in 1991, down from 82 cents in 1990. Third- and fourth-quarter prices are forecast to continue lower at 75-79 and 77-83 cents.

Retail prices for Grade A large eggs are expected to average in the mid-90 cents per dozen in 1991, several cents below the high levels experienced in 1989 and 1990. Second-quarter prices averaged 93 cents a dozen, nearly 6 cents below last year's average. Second-half prices will likely remain in the low- to mid-90's.

Commercial Milk Use Expected To Rebound

Commercial milk use during the second half of 1991 is expected to recover from the weaker levels recorded in the first half of the year. By the fourth quarter, use is forecast up almost 3 percent from a year earlier. For all of 1991, commercial use is forecast to reach a record 140 billion pounds (milk equivalent, milkfat basis), up less than 1 percent from 1990's record 139 billion pounds.

Commercial use of milk and dairy products (milk equivalent, milkfat basis) declined another 2 percent during the

second quarter of 1991. Demand for most of the major manufactured products also dropped.

Commercial butter disappearance during second-quarter 1991 was down more than 6 percent from a year earlier, while disappearance of nonfat dry milk declined almost 8 percent. Use of American cheese was down 6 percent, while use of other-than-American cheese remained relatively unchanged. Canned milk use was down about 20 percent.

Hard ice cream sales during the second quarter were up almost 8 percent after declining an average of 5 percent over the previous 3 years. Ice milk sales, on the other hand, were down about 5 percent after increasing an average of 2 percent a year in the previous 3 years. Frozen yogurt use, on the other hand, rose more than 35 percent during the second quarter from a year earlier.

Hog Herd Expansion Less Than Certain

Deteriorated crop conditions have caused uncertainty in feed markets. Continued uncertainty about feed costs could erode the high rate of hog herd expansion predicted earlier by the June Hogs and Pigs report. Although returns to producers are expected to remain favorable most of this year, any further rise in feed costs would squeeze producers' returns.

Hog prices averaged \$55 per cwt in July, but are expected to decline to the mid-\$40's in September as pork production increases sharply. Prices are expected to remain near the mid-\$40's through most of 1992, based on current feed price projections. However, prices could reach the low \$40's in late 1992 if the strong expansion suggested by the June Hogs and Pigs report for the first half of 1992 continues through the year.

Commercial pork production is expected to reach 16.6 billion pounds in 1992, the highest since the previous record of 16.4 billion in 1980. In 1991, production will be about 16 billion pounds.

Retail prices moderated in first-half 1991 from the record highs of last summer and are expected to drift lower in the second half as pork production rises about 7 percent. Retail pork prices in 1992 are forecast to decline 4-6 percent from this year's \$2.10-\$2.15 average per pound.

For further information contact: Richard Stillman, coordinator; John Ginzel, cattle; Felix Spinelli, hogs; Lee Christensen, Agnes Perez, and Larry Witucki, poultry; Jim Miller and Sara Short, dairy. All are at (202) 219-1285.

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Specialty Crops Overview

Prospective harvested area for fresh vegetables suggests summer supplies comparable to or slightly larger than last year. Potato prospects point to a record fall crop, and lower prices than in the last 3 years. Dry edible bean output is expected to be down 4 percent from a year ago, reflecting less harvested area.

Higher grower prices are expected for most fruits in 1991/92 because of smaller output of several fruits. A 41-percent recovery in Louisiana sugarcane acreage will contribute to 5.3 percent more harvested U.S. acreage and near-record production.

Tobacco output is also expected up, but prices are likely to remain firm as cigarette disappearance increases due to growth in exports.

Fresh Vegetable Acreage Higher

Prospective acreage for harvest indicates supplies of fresh vegetables for the summer are comparable to or slightly larger than a year earlier. The total acreage of seven selected fresh market vegetables—broccoli, carrots, cauliflower, celery, sweet corn, lettuce, and tomatoes—is estimated 5 percent higher than a year ago. Acreage increases are expected for all except carrots and celery, which are down 1 and 6 percent.

The fresh tomato area for harvest is forecast 6 percent higher than the 1990 summer crop. Cool weather slowed the start of California's harvest. Heat and drought during May and June stressed the crop in Virginia, while Alabama, Michigan, and New Jersey report tomato crops in good condition.

The prospective area of lettuce for summer rose 12 percent from last year. Cool weather through June slowed maturity in

California, but otherwise the crop is progressing normally.

Lettuce and tomato shipments were running slightly ahead of a year earlier during July, and prices were about the same to marginally lower. Celery shipments were lower and prices much higher than a year earlier.

Dry Bean Production Lower in 1991

Dry edible bean production as of early August is estimated at 31 million cwt, down 4 percent from last year. Estimated acreage for harvest fell 10 percent from 1990. But yields are expected higher than last year because of improved soil moisture in North Dakota and Minnesota.

Although North Dakota expects to harvest 9 percent fewer acres than in 1990, its production is forecast 25 percent higher. North Dakota grows mostly pinto and Navy beans, and prices for these varieties this spring were lower than a year earlier because of a large crop in 1990.

Michigan's production is forecast 6 percent lower in 1991, despite 3 percent additional acreage. Michigan is the largest producer of Navy beans.

Nebraska also expects to harvest fewer acres (down 17 percent) than in 1990. Nebraska is the major supplier of Great Northern beans. Grower prices for Great Northerns also were lower this spring than a year earlier, because of a large crop in 1990.

California's dry bean acreage is forecast 18 percent lower than in 1990. California supplies major shares of lima, kidney, and blackeyed beans. Scarce water supplies caused growers to cancel plans for late plantings.

Despite the 4-percent drop in expected production, grower prices in 1991/92 may not rebound very much from the depressed 1990 levels. The reason is that most beans will remain in abundant supply. Prices for other beans such as blackeye, black turtle, and pink, are expected

to continue strong if anticipated production cuts materialize.

Near-Record Potato Output Expected

First estimates indicate fall 1991 harvested potato acreage up 2 percent from 1990. If yields for the fall crop return to the trend average for the three seasons prior to 1988 (310 cwt per planted acre), fall production could reach 364 million cwt and the total U.S. output for this year would approach 410 million cwt. This compares with total output of 393 million cwt in 1990 and 370 million in 1989.

Unusually stable and relatively high potato prices during the last 3 years probably contributed to the increased acreage. The average grower price for 1988-90 was \$6.51 per cwt, 47 percent higher than the \$4.44 average for 1985-87. Prices have not fallen below \$5 per cwt since October 1988.

Weather-related production shortfalls, particularly in the Red River Valley of North Dakota and Minnesota, have contributed to the price strength in recent years. However, the region has had fre-

quent rains this summer and the potato crop is reportedly developing normally.

Idaho, the largest potato producer, is expecting output similar to last year's large crop. Washington, the second-biggest producer, has more acreage and improved yield prospects and is expecting a record-large crop.

If the current production potential is realized, potato prices for the 1990/91 marketing season would be expected to fall below those for the past three marketing seasons.

Fruit Prices To Remain Strong for 1991/92

Grower prices for most fruits are expected to average higher in 1991/92 than a year earlier. Part of the reason is lower pear, cherry, apricot, nectarine, and plum production as a result of last December's freeze. In addition, declines in Western states' apple production are expected to contribute to higher prices. But peach prices are expected lower because of a larger peach crop.

Although total apple production is forecast 4 percent higher than in 1990,

declines in the Western states are expected to result in strong prices for fresh apples during the winter and spring of 1991/92. Western production typically provides most of the late-season apples from storage. Strong domestic and export demand for fresh apples also should contribute to price strength.

Although industry sources indicate the 1991/92 California orange crop may be only 75 percent of the pre-1990 freeze level, the partial recovery in the state's crop expected in 1991/92 will likely push the U.S. weighted fresh orange price higher. The reason is that California oranges sell for a relatively high price compared with Florida fresh oranges. Hence, as more California oranges become available, the U.S. average price is weighted more heavily by the higher-priced California oranges.

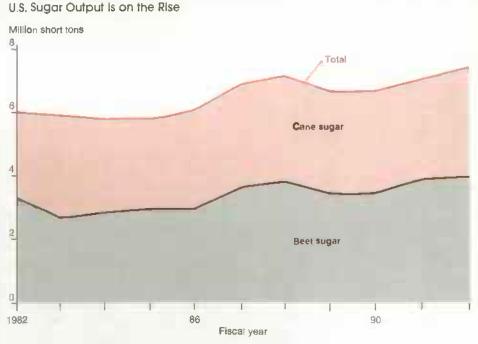
Sugar Acreage & Production Up

The initial estimate of harvested acreage for the 1991/92 sugar crops is 5.3 percent higher than last season, largely due to a sharp increase in sugarcane acreage in Louisiana. In Florida, cane sugar acreage is up 1.4 percent from 1990 to a record 440,000 acres.

Louisiana appears to be making a dramatic recovery from an abnormally small 1990/91 crop. Louisiana's industry was devastated by unusually cold weather in December 1989 which killed many of the underground roots (ratoons), making it uneconomical to maintain much of the acreage for harvest in 1990. Poor stands of cane on remaining acreage further reduced 1990/91 production.

The harvested acreage of sugarbeets is forecast nearly unchanged from 1990. Increases in major producing states such as Idaho, Michigan, and Nebraska are expected to offset acreage losses in California.

Early prospects point to record or nearrecord sugar production in 1991/92. USDA forecasts 1991/92 sugar production at 7.3 million short tons, raw value, 300,000 tons higher than a year earlier.

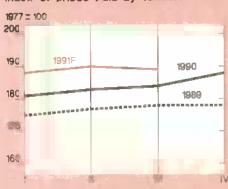


Raw value, 1991 estimated 1992 forecast

Prime Indicators

Agricultural Economy

Index of prices paid by farmers



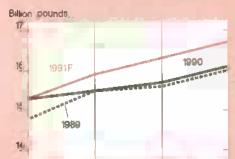
Index of prices received by farmers1



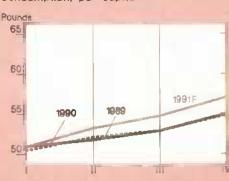
Ratio of prices received/prices paid



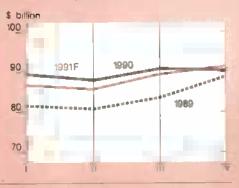
Total red meat & poultry production²



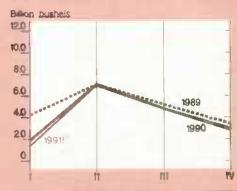
Red meat & poultry consumption, per capita^{2,3}



Cash receipts from livestock & products4



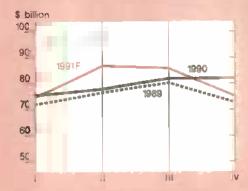
Corn beginning stocks⁶



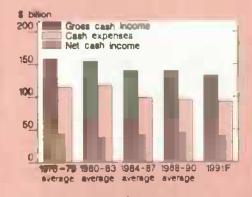
Corn disappearances



Cash receipts from Crops4



Real cash income 6



Average real value of form real estate



Farm value/retail food costs



³Retail weight ⁴Seasonally adjusted annual rate

Most of the increase in production is the result of the recovery in Louisiana.

Growing conditions in Florida have been better than usual for cane sugar production. Beet sugar production also is likely to rise from last season because of higher yields in the Red River Valley. Newly installed molasses desugaring facilities also will help boost sugar output.

Tobacco Output Up, Prices Firm

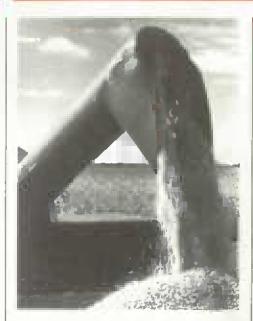
Tobacco production is forecast 1 percent higher in 1991, the result of a 4-percent increase in harvested area and lower yields. However, grower prices are expected to rise because of smaller domestic supplies and higher price supports. The decline in supplies will result from lower carryover stocks due to an expected 3-percent increase in disappearance of U.S. tobacco for cigarette production in 1990/91 as exports grow.

Flue-cured production is forecast at 905 million pounds, down 4 percent from 1990. The lower output is due to a 30-pound-per-acre drop in average yield. Flue-cured tobacco accounted for about 58 percent of all U.S. tobacco production in 1990.

Burley production is forecast at 649 million pounds, up 9 percent from 1990. The change from last year is due to increased acreage. Burley yields are forecast 107 pounds an acre lower than last year. [Glenn Zepp (202) 219-0883]

For further information, contact: Boyd Buxton, fruit; Gary Lucier, vegetables; Peter Buzzanell, sweeteners; Vemer Grise, tobacco; Doyle Johnson, tree nuts and greenhouse/nursery; David Harvey, aquaculture; Lewrene Glaser, industrial crops. All are at (202) 219-0883.

Commodity Spotlight



Corn's Link to Sugar: HFCS

The U.S. sugar program does more than support the price of U.S. sugarcane and sugarbeets. The sugar program indirectly supports the price of all types of sweeteners. High fructose corn syrup (HFCS), a sugar substitute, has come under the umbrella of protection offered by the sugar program, and with it, corn.

The HFCS industry has expanded rapidly in the last decade and a half. Domestic shipments of HFCS have risen from 525,000 short tons (dry weight basis) in 1975 to over 6.1 million tons in 1990. Use of HFCS has grown to over 36 percent of total caloric sweeteners consumed in the U.S. over the same time period. As HFCS output has grown, the process has used an increasing amount of corn. The demand for corn to produce HFCS increased more than eightfold from 1975 to 1989. And in farm press ads, wet millers have said that wet milling adds 25 cents to the price of a bushel of corn.

Assessing all this evidence, representatives of the com sweetener industry have argued in favor of the U.S. sugar program. In testimony before the International Trade Commission, the Hawaiian

Sugar Planters' Association said this use of corn reduces deficiency payments for corn by \$500 to \$700 million per year. But how much does the sugar program really affect the price of corn?

Wet Millers Produce More Than HFCS

The percentage of the corn crop allocated to wet milling for all purposes more than doubled from 1975 to 1989. Corn-based sweeteners, however, are not the only saleable product of the wet milling industry. In 1989/90 less than half of this sector's revenue was attributable to sweetener sales. The remaining revenue came from the sale of other products including by-products.

A bushel of corn used in wet milling produces about 33.3 pounds of HFCS (dry weight), 15 pounds of gluten feed, and 1.6 pounds of crude corn oil. When sugar prices rise, so will the demand and price for HFCS, but the by-products must also be put on the market, lowering their prices.

Most wet milling by-products used as feed are dried and shipped overseas. Some feed is used domestically, however, and the potential exists for even greater domestic use of by-products as feed.

Still, most of the growth in the wet milling industry is due to the demand for HFCS. Consumption of HFCS grew more than 97 percent between 1982 and 1990, though the rate of increase slowed beginning in 1987 as the market matured. The rise mostly reflects the increase in com sweeteners' share of total caloric sweeteners, but is also due to an increase in total sweeteners consumed.

Tracing the Impact of Sugar Prices on Corn

Domestic raw sugar is indistinguishable from the foreign raw sugar on which an import quota is levied. This article examines the link between the price of sugar and the price of corn, using the import quota to effectively vary the price of sugar. This is done even though in fact

Commodity Spotlight

Marketing year (SeptAug.)	HFCS	- Com used for: Glucose/ dextrose	All wet milling *	U.S corn produc- tion	Share of U.S. corn for wet milling
		Millio	n bu		Percent
1975	45	162	328	5.840	5.6
1976	62	164	352	6,289	5.6
1977	80	170	384	6,505	5.9
1978	105	170	414	7.268	5.7
1979	127	170	442	7,928	5.6
1980	165	183	503	6,639	7.6
1981	185	183	581	8,119	7.2
1982	215	188	660	8,235	8.0
1983	256	189	742	4,174	17.8
1984	310	187	810	7,672	10.6
1985	328	188	853	8.875	9.6
1986	339	185	879	8,225	10.7
1987	359	187	913	7,131	12.8
1988	362	196	932	4,929	18.9
1989	370	206	970	7,525	12.9

the support price is first established and the quota set to enforce this price.

The impact of the sugar import quota on grain prices begins with raw sugar. This is where the "stone hits the water," and the ripples then move out through the economy.

A simulation model is used to predict the effect of changes in the quota on sugar prices. The model uses 1982 as a base or representative year, with domestic raw sugar prices of about 20 cents per pound, twice the world price. The most significant effect generated by the quota occurred in the long run: unilaterally eliminating import restrictions is estimated to cause a reduction in the price of corn of about 3 cents per bushel.

To examine how various sugar price support levels affect corn prices, the quota is varied. To raise domestic raw sugar prices, the import quota is tightened, reducing the domestic availability of sugar. In the short run, with limited ability by domestic producers to adjust supplies, this reduction is more effective in raising price than it would be in the long run.

The domestic price of raw sugar can be raised from 10 cents to nearly 25 cents above the world price by a 60-percent reduction in imports. The refined sugar price rises 39 percent in response.

HFCS, a close substitute for refined sugar in many uses, experiences a price rise of 34 percent. Increased HFCS production boosts the derived demand for corn, and the corn price is raised about a cent per bushel.

Allowing an increase in imports by the same amount, for the purpose of reducing domestic raw sugar prices, operates through the same linkages. However, this does not lower the price of corn significantly.

To test the extreme ranges of the sugar quota, imports can be eliminated. This causes a near tripling (260 percent) of raw sugar prices and doubling (190 percent) of the price of refined sugar. This in turn pulls up the price of HFCS, and the increased demand for corn adds 1.5 cents to farmers' per-bushel receipts.

When supplies can adjust over the long run (due to increased mobility of land and capital, for example), the price-enhancing effects of a tighter sugar quota are reduced. The longrun corn price increase is negligible. This occurs for two reasons. First, with a more responsive domestic supply of sugar, the tendency for raw sugar prices to rise is diminished. This lessens somewhat the longrun incentive to expand HFCS production.

Second, in the long run, as more land becomes available, corn producers are more easily able to supply the increased wet milling purchases, either by shifting land from other crops (as in the model), or from the release of retired acreage under the CRP (which is not considered in this model).

The effects of unilaterally relaxing the sugar quota are opposite in direction and different in absolute magnitude from the results of reducing the quota. Many of the shortrun benefits of a loose quota would accrue first to sugar refiners, whose services would be in greater demand.

Consequently, even if the sugar program were abolished and the quota on imports were immediately eliminated, all the benefits of the lower world price might not be passed on to consumers immediately in a lower refined sugar price. Some of the benefit would be absorbed in the refining margin, lessening the beneficial impact to consumers.

In the long run, increased investment in sugar refining results in lower prices for sugar as well as for HFCS and increased consumer benefits. If the sugar program, working through the quota, were unilaterally and completely eliminated, this would translate into lower corn demand and approximately a drop of 3 cents per bushel in the price of corn.

Benefits to Corn Growers Are Minor & Temporary

The benefits of the sugar program to com producers may be overstated when the network of interactions within the sweetener industry is not accounted for. Four points stand out:

 HFCS would continue to be produced even if the U.S. eliminated sugar import restrictions. The wet milling demand for corn would be reduced, but not eliminated. Wet corn milling production serves more than the sweetener market. Alcohol production, for example, accounted for 22.9 percent of wet milling corn use in 1989, compared with just 1.5 percent in 1975. Corn oil is also produced as a by-product. These

Commodity Spotlight

World Agriculture and Trade

- goods are not affected directly by the sugar program, and thus the demand for corn derived from their use is little affected.
- HFCS cost of production is, by most estimates, below the average world cost of sugar production, and so would likely remain competitive in the U.S. even in the absence of a sugar program.

Behind The Model

A simulation model assesses the impact of the sugar program on comprices. The model captures critical economic relationships within the sweetener complex as well as the links between these industries and the remainder of the economy.

The wet milling industry, though more complex in reality, is modeled as a two-output industry. In the model, sweeteners including HFCS are the primary output. All other products, including gluten feed, comoil, ethanol, and starch are modeled as secondary outputs.

With a baseline simulation established for 1982 (and updated to 1988), domestic sugar prices are varied from their baseline levels. This is done by changing the quota, first tightening, then loosening, until it no longer has any effect.

Two sets of results are considered, First, shortrun simulations refer to the likely implications of changing the sugar price (via the quota) when capacity in the HPCS and sugar refining industries (and other sectors as well) cannot be altered. It is also assumed that sugarbeet and sugarcane acreage are fixed in the short run, while corn acreage response is marginally responsive.

Second, in longrun simulations, productive capacity is allowed to be altered. In longrun equilibrium, after-tax returns to capital are equated across all uses.

- The wet milling by-product market usually dampens the effect of rising and falling sweetener prices on feed grains. When sweetener prices rise under the sugar program and more HFCS is produced, more by-products—corn oil and gluten feeds—are also produced. Since the by-product prices fall (assuming nothing else has changed), total returns to the HFCS industry rise less rapidly than would otherwise be the case. This limits the incentive to expand HFCS production.
- Because most imported sugar is in raw form, the import quota first affects the price of raw sugar, which in turn affects refined sugar, the primary HFCS competitor. The refined sugar price may change at a different rate because it involves more inputs than raw sugar and can provide some cushion to the refined price, at least in the short run. The price effect of the quota is weakened by refining, so that the impact on HFCS and ultimately, corn, is also diminished.

Furthermore, the increased supply of feed substitutes such as corn gluten meal competes with corn grain in livestock rations. In other words, the production of HFCS does not fully exhaust the feed value of the input—corn. Consequently the derived demand for corn increases less than might be expected when HFCS production increases.

The sugar price support program, operating through the import quota, does raise corn prices. However, the extent of the price rise is small. The price-depressing effect of about 3 cents per bushel of corn from eliminating the U.S. sugar program and allowing unrestricted imports, would occur in the long run. On the other hand, eliminating sugar imports has the potential to raise corn prices by about 1.5 cents per bushel in the short run. [Matt Rendleman (202) 219-0405]



USSR Adjusts Trade To Deal With Debt

The value of total USSR imports was cut by nearly 50 percent during the first half of 1991, compared with the first half of 1990. Imports were stashed from former bloc trading partners as those countries sought new terms of trade and less centralized trading arrangements. The USSR also cut imports from OECD countries by 47 percent as it sought to balance trade and earn money to service its debt.

With exports to OECD countries in the first half of 1991 roughly 85 percent of the same period a year earlier, the USSR posted a positive trade balance with the OECD countries. And, a positive overall balance of trade was reported for this 6-month period.

The contents of this month's issue of Agricultural Outlook were prepared prior to the recent events that took place in the Soviet Union.

World Agriculture and Trade

The USSR cut food imports in January-June 1991. In volume, grain imports were 27 percent lower, animal oil imports down 56 percent, sunflowerseed oil imports down 79 percent, and poultry meat down 49 percent. Of the 10 agricultural commodity groups identified in the midyear report, only red meat and potato imports were up.

The fragmentary information on commodities suggests that nonagricultural imports may have been down more. This would reverse the recent trend of higher priority given to nonagricultural imports. In 1990, agriculture's 16-percent share of total imports was about half its peak share in 1981. Greater nonagricultural imports largely explained why the USSR went from an \$11.5-billion trade surplus beginning in 1988 to more than a \$5-billion trade deficit entering 1990.

U.S. Ag Exports to USSR Down from 1989 Record

After reaching a record \$3.6 billion in calendar 1989, the value of U.S. agricultural exports to the USSR declined 37 percent in 1990. A \$1.4-billion drop in grain exports more than accounted for the \$1,3-billion total decline. The

volume of corn exports fell almost 50 percent, and wheat fell 31 percent.

While the total volume of soybean and soybean meal exports increased, a 20-percent price decline helped reduce the value of total agricultural exports. Grain and soy products accounted for 90 percent of U.S. agricultural exports to the USSR in 1990, despite large sales of butter and poultry.

The Soviets had two successive years (1989 and 1990) of good grain harvests, with 1990 a near record. The USSR could delay shipment of grain contracted in the latter half of 1990 because of the large harvest and the buildup of 42 million tons of grain stocks since 1982 according to USDA estimates.

January-June 1991 U.S. agricultural exports to the USSR were a little more than half in the same period of 1990. Earlier this year, the U.S. allocated \$1.6 billion in GSM-102 export credits for the USSR and had announced intentions for another \$0.5 billion in October. Together with lower grain prices in first-half 1991, the credit guarantees helped sustain the volume of 1991 U.S. grain exports to the USSR.

Alf U.S. wheat exports to the USSR since 1987 have been under the Export Enhancement Program (EEP). Prices for U.S. wheat sales to the USSR under EEP in the first half of 1991 averaged about \$80 per ton, compared with nearly twice this level for the first half of 1990. EEP bonus rates for exporters thus far in 1991 have averaged \$44 per ton, compared with less than \$20 per ton during December 1989-May 1990.

The bonus rate for the July/August 1991 sales was over \$50 per ton. Total bonuses for U.S. wheat sales to the USSR since May 1987 exceed \$736 million, of which \$116 million was for sales thus far in 1991.

The current U.S.-USSR grain agreement requires the USSR to buy an average of 4 million tons each of wheat and coarse grains per calendar year from the U.S. However, the USSR may purchase as little as 3.25 million tons in one year, and make up the other 0.75 million tons in a later year.

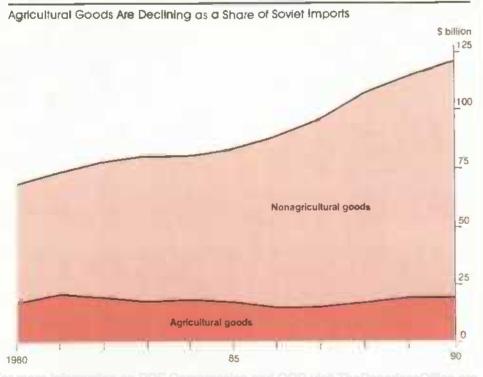
During January-June 1991, U.S. corn exports to the USSR were 6 million tons. U.S. exporters signed contracts for and exported 2.1 million tons of wheat to the USSR during the same period. The USDA Export Sales Office counted only 933,000 tons of this toward calendar 1991.

The remainder of the wheat was credited against the October 1989-September 1990 agreement year and the last quarter of 1990. In July-August, the USSR contracted for another 561,000 tons of wheat, bringing purchases, according to the Export Sales Office, to 1.5 million tons for calendar 1991.

Nonag Import Debt Mounts

Favorable terms of trade for agricultural products in the second half of 1990 failed to entice the USSR. In October, the USSR had to sell fewer barrels of oil for a ton of grain than at any time since 1982, and probably the least ever.

The Soviets instead continued high imports of nonagricultural goods while



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World Agriculture and Trade

U.S. EEP Wheat Purchases by the USSR Have Dropped Since 1986/87 1

Year	Wheat purchased	Bonus rate 2/	Total bonus
	1,000 tons	\$/ton	\$ million
1986/87	4,000	41.52	166.0
1987/88	8,805	32.00	281.8
1988/89	4,696	20.59	96.7
1989/90	3,799	19.95	75.8
1990/91	2,669	43.57	116.3
Total	23,969	30 73	736.7

1 Sales as of Aug. 13, 1991, 2 Weighted average

campaigning for concessionary terms in the competitive agricultural market. A clause in the October reform program expresses the Soviet government's interest in loans at preferential rates from capitalist countries. Credit in one area frees resources for purchases in another.

In 1990, the USSR increased imports of machinery and transport equipment more than \$10 billion over 1989 from all sources, including \$4.5 billion in calculating and office equipment. About half the increase in machinery and equipment was from the West, but none of the increase came from the U.S.

The USSR increased imports of a variety of nonmedicine, nonfood consumer goods in 1990. Cosmetic imports increased \$400 million, silk and similar synthetic fabrics \$270 million, and leather footwear \$400 million. The USSR also imported 98 billion cigarettes, a 75-percent increase over 1989.

Soviets Emphasize Hard-Currency Trade

Soviet exports declined in 1990, but only because the USSR deliberately continued its cutback of exports to the socialist countries—action taken as early as 1988. With the change in political situation in the second half of 1989, the decline accelerated through 1990. Because these countries had paid the USSR with their soft (nonconvertible) currencies, the USSR viewed the positive trade balance with Eastern Europe and other allies during 1980-87 as a liability.

While soft-currency exports declined, hard (convertible) currency exports increased in 1990 to a record \$35.5 billion. The USSR stepped up oil exports to the West and further benefited from the high oil prices in the second half of 1990. By the end of the year, the USSR had cut its trade deficit with the OECD countries by \$1.7 billion—over 25 percent—in spite of increasing imports from the West.

The Soviets put higher priority for hardcurrency imports on nonfood goods. Hard-currency imports rose by \$2 billion in 1990 to a record \$37 billion, with little or no net increase in hard-currency agricultural imports from the West. Hard-currency grain imports in 1990 were only about 11 percent of total hardcurrency imports, down from their average of 21 percent in 1981-85.

Agriculture's share of hard-currency imports in 1990 was perhaps 20 to 25 percent, well below the 35-percent average in 1981-85.

The aggressive import programs in 1988 and 1989 included an additional \$16 billion for nonagricultural goods, and only a \$3.5-billion expansion for farm products. By the end of 1990, the USSR had allowed net hard-currency debt to reach \$45 billion.

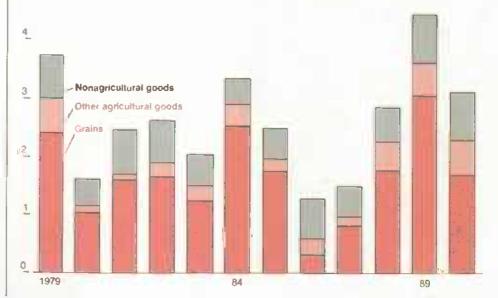
Prospects for USSR Debt Repayment

The USSR debt must be put in perspective. In area, the USSR is the world's largest country, more than twice the size of either the U.S. or China, with vast natural resources. Its population of 290 million is about 15 percent larger than the U.S. population.

The USSR is the world's largest producer of natural gas (output about equal to the combined total of the OECD countries), and production is increasing. Despite a 9-percent decline in January-June 1991 output of petroleum, the

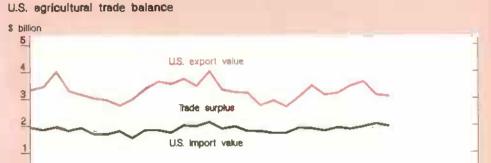
Grains Typically Make Up Over Half of U.S. Exports to the Soviet Union

\$ billion 5

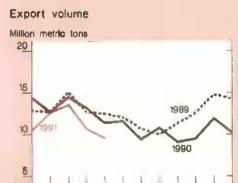


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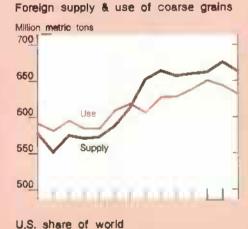
U.S. Trade Indicators

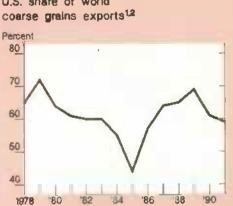


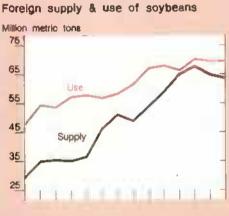
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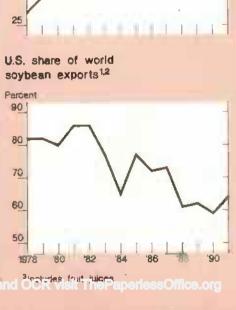


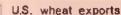


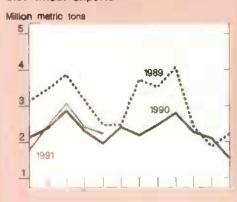




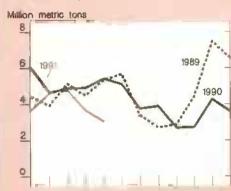




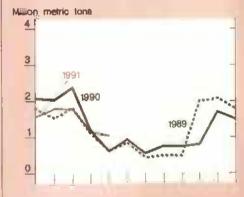




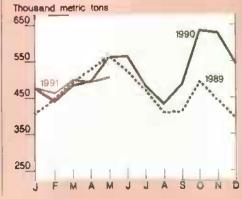
U.S. corn exports



U.S. soybean exports



U.S. fruit & vegetable exports³



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World Agriculture and Trade

USSR remains by far the world's largest petroleum producer and second-largest gold producer.

At the end of 1990, Poland's net debt, estimated at \$40 billion, was comparable to that of the USSR. Yet Poland's area is only 1 percent of the USSR, and its population just 13 percent. While the USSR's net debt at \$45 billion was equivalent to 3 percent of its Gross Domestic Product (GDP), Poland's equaled 32 percent of GDP. Poland's debt service ratio was 3 times higher and its net debt-to-export ratio almost 4 times higher than the USSR's.

Still, the vast natural resources and educated population of the USSR have not been used efficiently under the centrally planned system. Effective resource use

September Releases from USDA's Agricultural Statistics Board

The following reports are issued at 3 p.m. Eastern time on the dates shown.

September

- 4 Walnut Production (Tent.)
- 5 Egg ProductsPoultry Slaughter6 Celery (1 p.m. report)Doiry Products
- 10 Vegetables
- 12 Crop Production
- 13 Milk Production Turkey Hatchery
- 18 Cattle on Feed
- 19 Cattish
- 23 Hog Stocks
 Cold Storage
 Livestock Slaughter
- 24 Eggs, Chickens, & Turkeys
- 25 Citrus Fruits
- 26 Potatoes
- 27 Hogs & Pigs Peanut Stocks & Processing
- 30 Agricultural Prices Grain Stocks

will be imperative for the USSR in order to service and retire debt run up by high nonagricultural imports from the West.

Currency Control at Issue In Debt Reduction

The ability of the Soviet economy to function efficiently and to finance debt repayment is not the only factor affecting payment performance. Payment performance also depends on what entities in the country are responsible for payment, and their access to hard currency. This issue of control spans not only central versus republic authority, but also the degree of control by local authorities, firms, and individuals.

The national government has controlled the movement and allocation of most foreign exchange earnings. In November 1990, faced with a large hard-currency debt, the government took an aggressive stance on debt reduction by requiring exporters to sell 40 percent of their foreign currency earnings to the USSR Bank for Foreign Economic Activity to be used for debt retirement. Firms have had to sell additional foreign currency earnings to another fund that finances imports, including food imports.

Control of foreign currency remains a contentious issue while the USSR is in the process of change. Russia, for example, produces about 90 percent of Soviet oil, 75 percent of its natural gas, and likely as high a share of gold. Russia also accounts for nearly 80 percent of Soviet exports. The republic's government and firms stand to benefit greatly if foreign currency earnings are removed from national control.

The chance of repayment of long-term loans depends on the ability of future reforms to provide a framework for a coherent economic system for the nation and the individual republics. The USSR has large reserves to sustain its economy as it reforms, but the process will be extremely complicated for this large, diverse society. [Kathryn Zeimetz (202) 219-0621]

Resources



Farmland Values Rising More Slowly

national panel of 450 rural real estate appraisers surveyed in July expects U.S. farmland values to rise 0.9 percent during the next 12 months. The appraisers also reported a 2.9-percent increase in farmland values during the previous 12 months. Appraisers cite weakness in the economy and lower commodity prices as key reasons for the slower expected rise in farmland values.

In July 1990, 64 percent of the appraisers forecasted higher values for the next 12 months, while only 3 percent expected declines. They looked for higher commodity prices, increased demand by producers expanding operations, and higher inflation to help support a gain of 3.2 percent in farmland values during July 1990-91. But in July 1991, only 39 percent of the appraisers expected higher farmland values in the year ahead, and 15 percent anticipated declines.

Farmland Values Show Biggest Third-Quarter Gain in North Central Region

1991	West	North Central	South	North- east	U.S.
			% change		
Jan -March	0.1	-0.8	0.3	0.3	-0.1
April-June	0.3	0.5	-0.1	0.0	0.2
July-Sept*	0.3	0.4	0.1	0.0	0.3

"Expected change. Based on July 1991 national survey of rural appraisers.

Rural Appraisers Reduce Expected Increase in U.S. Farmland Values

Period forecast	West	North Central	South	North- east	U.S.
			% change		
July 1990-91	3.0	4.7	1.5	1.7	3.2
October 1990-91	2.3	3.2	0.1	3.1	2.0
January 1991-92	1.7	0.2	-0.7	0.4	0.4
April 1991-92	2.0	2.1	1,6	1.1	1.9
July 1991-92	1.9	1.7	-1.1	0.5	0.9

Biggest Gain Expected in West, N. Central Regions

Just over half the appraisers from the West expect higher farmland values in that region in the year ahead, while 40 percent anticipate no change. Overall, farmland values there are expected to rise 1.9 percent between July 1991 and July 1992. Appraisers cited stronger investor demand, higher commodity prices, and an improved economy as principal factors supporting the expected increase.

About three-fourths of the appraisers in the West reported rising farmland values during the past year. They attributed this 3.2-percent gain in values largely to increased investor demand for farmland, producers expanding their operations, and higher commodity prices.

In the North Central region, a third of the appraisers expect higher values over the next 12 months, down from 73 percent a year ago, while 57 percent currently anticipate no change. The 1.7-percent increase expected for the year ahead is less than half the 4.2-percent rise reported for the preceding year.

Those expecting higher values in the upcoming year look for increased demand for farmland, favorable weather, and higher commodity prices. Reported value gains during the past year largely stem from higher commodity prices and stronger demand for farmland from producers expanding operations.

Values Up in Northeast, Down in the South

Appraisers in the Northeast anticipate a 0.5-percent increase in values over the next 12 months, about half the 1.1-percent gain expected in April 1991 for the 12 months following that survey. The July year-ahead increase is contingent on higher commodity prices, while the April prediction hinged on expectations of both higher commodity prices and stronger investor demand.

Eighty-six percent of appraisers in the Northeast indicated unchanged values during the year past, although 11 percent reported higher values. Overall, appraisers in the Northeast reported a gain of 0.4 percent since July 1990. Those reporting higher values cited improved farm incomes and stronger demand for farmland.

Appraisers in the South anticipate a 1.1percent drop in farmland values in the
year ahead. They were about equally
divided on whether values would be
higher, lower, or unchanged. A weaker
economy and lower commodity prices
contributed to the appraisers' forecast
drop in farmland values.

The Rise in Farmland Values Is Expected to Taper Off or Reverse in Most Regions in 1991-92



ported percent change, July 1990-July 1991.

Expected percent change, July 1991.July 1992.

Resources

About the Survey

A panel of about 450 rural appraisers, all members of the American Society of Farm Managers and Rural Appraisers, participates in quarterly surveys of farmland values. Their opinions on farmland values complement the Economic Research Service's annual surveys of farmland values.

Appraisers focus on value changes during the past 3- and 12-month periods and on expected changes over the next 3- and 12-month intervals. In determining regional averages, appraisers weighted individual responses according to the acres of land in farms within each reported area. Similarly, the regional averages are weighted by acres of land in farms to develop national weighted averages.

The Wisconsin Survey Research Laboratory at the University of Wisconsin conducts the surveys for the Economic Research Service.

Nearly half the surveyed appraisers in the South reported higher values during the past year, while 40 percent indicated no change. They attributed the 1.2-percent gain to higher commodity prices, a stronger economy, and increased investor demand for farmland.

Quarterly Forecast Shows Some Strength

After reporting a slight decline in firstquarter 1991 farmland values, appraisers indicated a 0.2-percent increase in second-quarter values and an expected 0.3-percent gain in the third.

Quarterly changes vary regionally. While the West exhibits consistent 1991 gains, the North Central region shows the strongest second- and third-quarter increases, at 0.4 to 0.5 percent. Changes in the South are mixed, and appraisers in the Northeast indicate no change since first-quarter 1991. [Roger Hexem (202) 219-0423]

U.S. Food & Ag Draw Japanese Investors

uring the past decade, several factors have made U.S. food and agricultural enterprises attractive to Japanese investors. Depreciating land values in the U.S. in the early to mid-1980's, an appreciating exchange rate favoring the yen, elimination of Japanese trade barriers for some key products, and the opportunity to satisfy both Japanese and American consumer demands have all lured Japanese investment. An economic boom in Japan in the late 1980's provided capital to take advantage of investment opportunities overseas as well as at home.

Foreign Ownership in U.S. Small but Growing

The total amount of foreign-owned agricultural land in the U.S. was relatively stable through the 1980's, but increased 12 percent in 1990. The U.S. has nearly 2.3 billion acres within its boundaries, and of this, almost 1.3 billion is privately owned agricultural and forest land.

Of the total privately owned land, only 14 million acres—a liule more than 1 percent—is owned by individuals or firms outside the U.S. Japan ranks eighth with 535,880 acres, and the type and location of land owned by Japanese investors is diverse. Major Japanese landholdings include 180,000 acres of forest land in Maine, 110,000 acres of pasture and cropland in New Mexico, and 80,000 acres in Hawaii.

Only in Hawaii is Japan's agricultural land ownership significant. The 80,000 acres represent 45 percent of the state's foreign-owned agricultural land and 5 percent of the state's privately held agricultural land. Altogether, Japanese

investors hold only 3.7 percent of foreign-owned farmland in the U.S.

But the value of the land they own is much higher than other foreign investors' property. The reported value of all foreign-owned agricultural land in 1990 is roughly \$10 billion, with land owned by Japanese investors valued at just over \$1 billion, or 10 percent of the total.

Throughout the 1980's, because of the large appreciation of the Japanese yen, the price of agricultural land in terms of the yen declined—from 210,000 yen per acre in 1982 to 100,000 yen per acre in 1990. Most of the land purchased by Japanese investors was acquired in the late 1980's.

Investments To Expand Markets

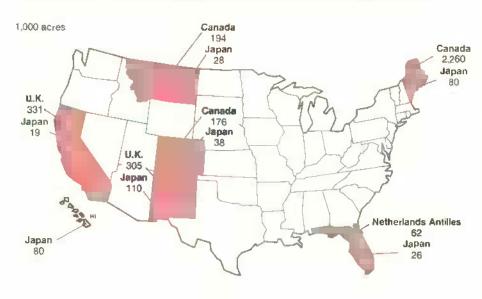
In 1990, the total foreign investment in U.S. food processing was \$22.9 billion. Western Europe has the largest foreign investment in U.S. food processing, with investments of \$21.2 billion—93 percent of the total. The UK is the largest foreign investor in U.S. food processing—with nearly \$9 billion (38 percent) in 1990.

Relative to other types of Japanese investment in U.S. firms, the Japanese stake in food and agricultural establishments is growing, but is still very small. The Japanese share of all foreign investment in U.S. industry increased from 7.1 percent (\$7.7 billion) in 1981 to 20.6 percent (\$83 billion) in 1990.

Over the same period, the share of Japanese investment in the U.S. food processing sector decreased from 2.9 percent of all foreign investment to 1.7 percent in 1989, then rose again to 2.9 percent in 1990. But the dollar value of Japanese investment in food processing grew from \$165 million in 1981 to \$662 million in 1990.

Beyond the ownership of agricultural land, Japanese investors have begun to take advantage of other opportunities in food production and agribusiness to satisfy both Japanese and American con-

Japanese Landholdings Are Small Compared With Other Foreign Investors



Indicates largest foreign landholding nation In each state where Japanese own land. Japan is the largest foreign landholder in Hawaii.

sumer demands. Much of the information in this article was obtained from interviews with Japanese investors in a U.S. orchard, in firms producing Japanese noodles and sake, in a beef processing plant, and in a seed firm. These firms are representative of the types of enterprises in which the Japanese have investments.

A primary reason given for investment in the orchard and beef processing firms was the recent elimination of Japan's beef and citrus import quotas. Eliminating import quotas in these commodities is expected to result in greater shipments to Japan. Like their American counterparts, Japanese investors are eager to supply these products to Japanese consumers. But Japanese ownership also affords the opportunity for investors to expand exports from the U.S. into other markets.

The sake and noodle firms provide opportunities to introduce Japanese food products to American consumers and expand beyond a stagnant and saturated domestic demand in Japan, while saving on transportation and raw material costs. Interestingly, investors in the seed firm indicated that lower labor costs in the U.S. were a factor in investment deci-

sions. Americans frequently assume that their difficulty in competing in many markets is due to high wages relative to other competitors.

Large Expansion Is Unlikely

It is unlikely that a large expansion in Japanese investments in U.S. food and agriculture will occur, since investment decisions hinge on numerous factors, including cultural barriers related to food tastes in both countries. Continued investments in U.S. agricultural land will depend on the exchange rate between the yen and the dollar, and on the ability of the Japanese to obtain financing.

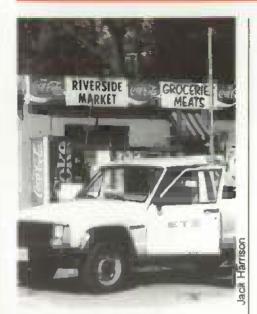
The principal reasons cited by the firms surveyed for investing in the U.S. food sector are to produce food products to satisfy Japanese consumers in both Japan and in the U.S., to take advantage of lower priced inputs, to develop and expand a North American market, and to obtain information about the U.S. market.

Also, U.S. firms have had difficulty selling in Japanese markets because U.S. processing and packaging of many products, such as beef, do not conform to Japanese tastes and preferences. Japanese investment in U.S. firms is one way around this cultural barrier. The U.S. beef industry has several U.S.-Japan joint venture arrangements in ranches, feedlots, and slaughterhouses to meet these needs.

Unlike investments in other U.S. industries, however, the small investments made by Japan in the U.S. food sector are not likely to capture a significant market share. For one thing, food is part of the unique culture of a country, and rapid adaptation to Japanese tastes by American consumers is unlikely.

Also, the size of Japanese-owned companies operating in the U.S. is small in comparison with the size of their parent companies. This is making it difficult for Japanese-owned firms to compete with major U.S. food firms producing similar products, since there is no opportunity to take advantage of economies of scale that larger operations afford. A few firms such as Nissin Foods and Kikkoman have succeeded, however, in becoming major food processing companies in the U.S.

These factors suggest that long and steady effort will be necessary for Japanese food companies to be major competitors in the U.S. market. [Ryuhei Matsumoto, an economist with the Japanese Ministry of Agriculture, Forestry and Fisheries, visited ERS during March-August, 1991. For further information, call Christine Bolling (202) 219-0610]



Will Rural Employment Recovery Be Uneven?

The U.S. economy appears to be recovering from the recent recession. By the end of July, the index of leading indicators had risen for 5 months, employment had stabilized, and real GNP had risen for the first time since the third quarter of 1990—all signs in favor of economic recovery.

As the economy expands, joblessness in metropolitan (urban) and nonmetropolitan (rural) areas might be affected differently. To analyze these possibilities, the Economic Research Service examined historical patterns during similar economic cycles.

This article looks at the response of urban and rural unemployed, discouraged, and "nonemployed" workers to economic recovery and recessions. Quarterly data since 1973 on unemployed, discouraged, and nonemployed individuals were used to detect longrun patterns of change in the numbers of these three jobless groups when U.S.

employment expanded. The period includes the employment expansions following three recessions (1973-75, 1980, and 1981-82).

Workers Without Jobs

"Unemployed workers" are jobless individuals who continue to look for work. Since they are seeking a job, the unemployed are considered labor force participants. The term "discouraged workers" refers to the jobless who desire work but have stopped actively seeking employment. Discouraged workers are not considered as labor force participants, and so are excluded from the ranks of the unemployed in the official statistics. A third group are considered "nonemployed," a broader category of jobless that includes unemployed individuals, discouraged workers, and half the part-time workers who would prefer full-time work.

Policymakers often want to know how jobless numbers in these groups may decline as employment expands, and whether urban and rural groups are affected similarly. One way to provide answers to these questions is to take data on past conditions, and use average patterns to characterize the response of the three groups of urban and rural jobless to the employment expansion expected in 1991. Important factors include the time required for response to begin; directions, patterns, and duration of response; and magnitude of response. Urban and rural comparisons are provided for each of the three groups.

Urban Response Is Stronger Than Rural

Perhaps the most important single finding is that historically, each percentage increase in employment during recoveries has generated a more pronounced percentage decline in jobless rates in urban areas than in rural areas for all three groups. Evidence from the three

About the Models

Three vector autoregression (VAR) models were used to summarize how U.S., rural, and urban employment for the various groups have moved together historically. Vector autoregressions describe relationships of a variable such as rural unemployment to its own past as well as to past values of associated variables, such as U.S. employment. This statistical technique shows how different categories of unemployment are related.

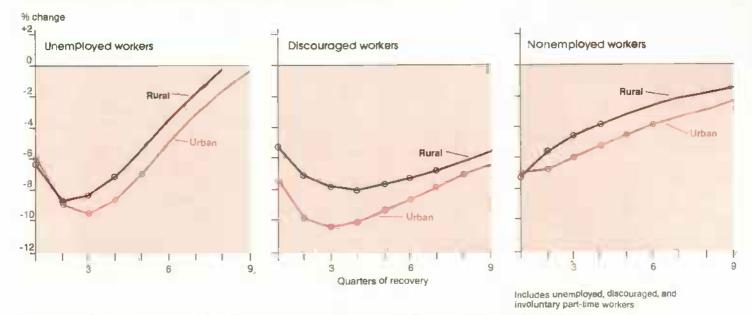
The estimation period, covering three recessions, is 1973-89, and the data are on a quarterly basis. The data, from the Bureau of the Census Current Population Survey, were not seasonally adjusted.

Each model was "shocked" with a 1percent rise in U.S. employment—a level selected for convenience in describing results, but which also allows easier extrapolation to different-size shocks which are multiples of a 1-percent rise.

The "unemployment" model contains U.S. employment, and urban and rural unemployment; the "discouraged worker" model contains U.S. employment, and rural and urban discouraged workers; and the "nonemployment" model contains U.S. employment, and rural and urban nonemployment.

The results are presented in terms of percent changes. That is, these figures show percent changes in, not levels of, the work force groups. All responses are presented as declines in unemployment, which are plotted below zero in the accompanying figures. Circled responses are statistically significant—these have a low probability of being explained by chance.

In an Economic Recovery, the Percent Decline in Unemployment Is Greater, More Rapid, and Longer-Lasting for Urban Than for Rural Groups



Percent decline in unemployment each quarter relative to the model's baseline, with an Initial 1-percent rise in civilian employment. Circled points are statistically significant—i.e., unlikely to be due to chance.

models suggests that a 1-percent rise in U.S. employment, on historical average, generated:

- declines in unemployed workers of 6.8 percent in rural areas and 7.5 percent in urban areas;
- declines in discouraged workers of 9.1 percent in rural areas and 11.9 percent in urban areas; and
- declines in nonemployed workers of 6.3 percent in rural areas and 7.5 percent in urban areas.

Urban and rural levels of unemployed, discouraged, and nonemployed workers typically begin responding during the same quarter (within 3 months) as the rise in U.S. employment. Declines in urban and rural unemployment and nonemployment historically have been more pronounced early in the response cycle, tapering off toward the end of the cycle. Declines in discouraged workers in both urban and rural areas have initially accelerated in strength for two to three quarters, before eventually losing strength toward the end of the response cycle.

Duration of response varies among groups from four to eight quarters. Urban and rural response patterns last from four to five quarters for unemployed workers, seven to eight quarters for discouraged workers, and four to six quarters for nonemployed workers.

Estimated responses of unemployed, discouraged, and nonemployed workers to a rise in U.S. employment reflect the longrun or historical average "standard" responses for the three groups in the two areas. A specific period of economic rebound and employment expansion may differ from the average historical patterns presented here for the post-1973

period. Yet averages are based on evidence and are often useful in characterizing potential events.

Judging by the urban/rural multipliers for each group, urban areas experience a more marked percentage decline in unemployment than rural areas for each point rise in U.S. employment. The relatively longer duration of discouraged worker response suggests that discouraged workers continue to reenter the labor force more than a year after employment starts expanding.

Compared with unemployed, discouraged, and nonemployed workers in urban

As U.S. Employment Rises, Urban Job Response Is Stronger Than Rural

	Urt	pan	Aural		
Jobiess group	Multiplier *	Number of quarters	Multiplier *	Number of quarters	
Unemployed workers	-7.5	5	-6.8	4	
Discouraged workers	-11.9	8	-9.1	7	
Nonemployed workers	-7.5	6	-6.3	4	

areas, unemployment among the three rural groups, in percentage terms, declines less when times are good and national employment expands, but rises less in bad times when national employment falls.

Rural-Urban Gap Expected To Persist

The difference in the multipliers doesn't tell the whole story about rural versus urban labor force conditions. Rural areas have recorded unemployment rates higher than urban rates for over 10 years, and in addition, they have proportionately more discouraged and involuntary part-time workers than urban areas.

For example, the rural unemployment rate in 1989, the last nonrecession year, was 5.7 percent (urban 5.2 percent). Discouraged workers were 1 percent of the rural labor force (urban 0.6 percent), and the rural adjusted unemployment rate—the rate based on the definition of non-employment given above—was 9.1 percent (urban 7.5 percent).

The rural unemployment rate for 1990 was 5.9 percent compared with a 5.4-percent urban rate, and the adjusted rates were 9.4 percent for rural areas and 7.9 percent for urban areas. Using the above results, and translating them into labor market impacts, it is likely that the rural-urban unemployment rate gap will remain stable over 1991, with the possibility of one- or two-tenths of a percentage point increase.

Those movements in the gap are small by standards of the 1980's. The rural-urban adjusted unemployment rate gap, however, may increase, since rural discouraged and involuntary part-time workers are expected to benefit less from the economic upturn than the corresponding urban groups. [Ronald A. Babula (202) 219-0785]

Recession Lingers in Rural Labor Markets

hen the period of sustained employment growth that began in 1983 ended in 1990, rural and other areas felt the impact of the national recession. Although unemployment rates have not reached the very high levels of the early 1980's, they have increased significantly since mid-1990.

Historically, unemployment rates fall more slowly in a recovery than they rise in the preceding recession, suggesting that rural unemployment will outlast other effects of the recession.

Still, the farm sector has been less affected by this latest recession than by the 1980-82 recession. And unlike during the earlier recession, the farm sector has not been disproportionately affected.

But rural job market trends are important for farmers, who rely increasingly on offfarm income to ease the vicissitudes of farming.

Rise in Unemployment Affects All Groups

The unemployment rate for non-metropolitan (rural) workers increased from 6.1 percent in the first half of 1990 to 7.6 percent in the first half of 1991. It is possible that unemployment will climb still higher, but the most recent national statistics suggest that the recession has likely bottomed out. The rise in unemployment affected all demographic groups. Blacks and teenagers, who already had much higher unemployment rates than whites and adults, experienced the largest increases.

Official statistics tend to underestimate unemployment, especially in rural areas, because the numbers do not reflect discouraged workers or involuntary parttime workers. The adjusted unemployment rate—including individuals in rural areas who have given up looking for work, and half of those who work parttime but who want a full-time job—rose

Rural Areas Still Have Higher Unemployment Than Urban Areas

Unemployment rate 115 LEGAL NOTICES S HELP WANTED HELP WANTED HELP WANTED. DOMESTIC HELD WANTER EDITOR PRODUCTION MECHANIC EXPER SALES PERSONS NEEDED FEMALES WELCOME FRED BECK PONTIAC 15 AST 7 Rural 10 Urban ROUT DESK CLERK TELEMARKETER

Unemployment rates adjusted to include discouraged workers and those working part-time who desire full-time jobs. 1991 forecast.

Source: Department of Commerce, Bureau of the Census.

from 9.5 to 11.5 percent over the same period.

The recent recession has affected rural workers about as severely as their urban counterparts. Between the first half of 1990 and the first half of 1991, rural employment fell by 1.1 percent. The corresponding fall for urban workers was similar, at 1 percent.

Data on unemployment also indicate approximately equal rural and urban impacts. The rise in unemployment was 1.5 percentage points in rural areas compared with 1.4 percentage points in urban areas. As is typical in a recession, adjusted unemployment rates rose more than the official measure. However, the urban and rural increases in the adjusted rate were also very similar.

1981-82 Recession Was Worse

The recession that began last year has been milder than the 1981-82 recession, particularly for rural areas. The official rural unemployment rate rose to 11.3 percent in the first half of 1983, well above the 7.6-percent level in the first half of 1991. This difference suggests that the level of economic stress in rural areas has not reached the high levels of the early 1980's.

Perhaps surprisingly, the fall in rural employment was slightly larger in 1990-91 than in the 1981-82 recession. Between the first half of 1990 and the first half of 1991, rural employment fell by 1.1 percent compared with a 0.9-percent decline between the first half of 1981 and the first half of 1983.

But the smaller employment downturn in 1981-83 resulted in higher unemployment rates for two reasons. First, the unemployment rate at the start of the 1981-82 recession was higher than at the outset of the 1990-91 recession (7.9 versus 6.1 percent). Second, the rural labor force grew more rapidly during the 1981-82 recession. Because the number of workers looking for jobs was increasing rapidly in that period, a 0.9-percent reduction in employment resulted in a

Rural Unemployment is Up....

	First-half	First-half
	1991	1990
	M	Hhon
Rural civilian labor force	26.3	26.2
Total employment	24.3	24.6
Unemployed	2.0	1.6
Rural unemployment rate:	Pe	rcent
All adult civilian workers	7.6	6.1
Men	8,1	6,3
Women	7,1	5.8
Teenagers	20.3	15.9
White	6.9	5.5
Black	14.7	11.4
Hispanic	9.8	9.7
Adjusted rural unemployment rate*	11.5	9.5

....But Unemployment Rose More in the Previous Recession

	First-half 1990 to first-half 1991	First-half 1981 to first-half 1983
	Percenta	ge change
Civilian labor force:		
U.S.	0.5	4.5
Urban	0.4	5.2
Rural	0.5	2.9
Employment		
U.S.	-1.0	1.1
Urban	-1.0	2.0
Rural	-1,1	-0.9
	Percentag	e point rise
Unemployment rate:		
U.S.	1.5	3.0
Urban	1.4	1.6
Rural	1.5	3.4
Adjusted unemployment rate *		
U.S.	19	4.3
Urban	1.9	2.3
Aural	2.0	5.0

"Adjusted to include discouraged workers and half the workers employed part-time for economic easons."

Source: U.S. Department of Commerce, Bureau of the Census. Data are not seasonally adjusted

much larger, 3.4-percentage point rise in unemployment.

Another important difference between the two recessions is that rural workers were disproportionately affected by the earlier slowdown, but have not fared significantly worse than urban workers in the more recent slowdown. Urban employment actually rose 2 percent between the first half of 1981 and the first half of 1983, while rural employment fell 0.9 percent.

Urban unemployment did rise during this period, because the 2-percent job growth failed to keep pace with the 5.2-percent increase in the urban labor force. But the rise in urban unemployment was only about half the rural increase. Following the 1981-82 recession, the urban unemployment rate also fell more rapidly than the rural rate.

Differences in the sectoral composition of the two recessions helps to explain the diminished vulnerability of rural areas in

the latest recession. The 1981-82 recession was most severe in the goods-producing sectors, including farming, mining, and import-sensitive manufacturing. Because many rural areas are especially dependent on these sectors, they were among the most adversely affected by the 1981-82 recession and the longer term economic restructuring that it generated. By contrast, continued strong growth in many service industries buoyed urban employment in the early 1980's.

Job losses since July 1990 have been less concentrated in production jobs (especially nondurable manufacturing) than during the 1981-82 recession. Many firms most affected by the more recent recession are clustered in urban areas. Financial institutions are an example, particularly banks that invested heavily in commercial real estate. This difference explains why rural workers have not been disproportionately affected by the current recession, as was the case in the 1981-82 recession.

Outlook for Recovery Still Uncertain

More so than in the 1981-82 recession, the outlook for rural employment is closely tied to the national economy's prospects. Weaknesses in the agriculture, mining, and manufacturing exports sectors delayed the post-1982 economic recovery in many rural areas. The resulting economic shakeout in these areas, while painful, probably means that they are now better positioned to benefit from a national recovery. [Paul Swaim and Tim Parker (202) 219-0540]

Food and Marketing



Small Rise in Food Prices This Year

percent in 1991 are far more moderate than the 5.8-percent rise in both 1989 and 1990. The Consumer Price Index (CPI) for food in the first half of 1991 was 3.8 percent above a year earlier. And the CPI for food in the second half is expected to rise at an even slower pace.

Many of the major food categories of the CPI are rising more slowly this year than in 1990. All meat prices, for example, climbed 10.1 percent last year while pork prices rose almost 15 percent, but both are rising only 1-4 percent this year. And processed fruit and vegetable prices are expected to remain unchanged or rise up to 2 percent from a year earlier, compared with a 6.2-percent increase in 1990.

Small dectines are expected in poultry and egg prices. The dairy CPI is actually expected to decline as much as 3 percent in 1991 after rising 9.4 percent last year.

The CPI categories for more highly processed foods such as cereals, fats and oils, and other prepared foods, will rise

about the same rate as a year ago. Prices of more highly processed foods are less affected by production swings of the raw farm product and are more susceptible than nonprocessed food categories to inflation pressure in the general economy.

Meat Prices Rise Slowly, Dairy Prices Drop

Red meat production is expected to be higher in second-half 1991 than 6 months earlier. Beef and pork production is expected to average about 5 percent above first-half production. Increased supplies and some easing of retail beef prices will be evident in the third quarter. Lower pork prices will be more evident in the fourth quarter as production increases seasonally.

Increased production of fluid milk and higher inventory of processed dairy products will lead to lower dairy prices in 1991 than last year. Dairy prices rose sharply following the 1988 drought when forage supplies were scarce and production in large milk producing regions declined substantially.

At the same time milk production was down, demand for processed dairy products increased, particularly for cheese and nonfat dry milk. Retail prices for dairy products remained high and showed no sign of easing until the fall of 1990.

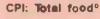
But Fresh Fruit Prices Are Up Substantially

Fresh fruit prices will rise the most among food categories in 1991, averaging 12 to 15 percent above a year earlier. This year's rise in fresh fruit prices is due primarily to poor weather conditions on the west coast. The major weather disruption was the California freeze last December, which reduced the total fresh orange crop over 60 percent from a year earlier. California oranges are produced primarily for fresh consumption markets.

The sharp reduction in market supplies of fresh oranges caused a 35-percent increase in retail prices in January and further increases in the following months.

Food and Marketing Indicators

Food and Marketing





CPI: Food at home



CPI: Food away from home



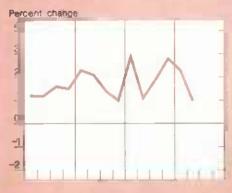
Retail coat of food



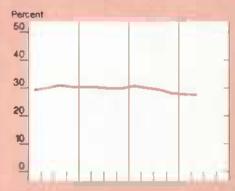
Farm value of food[†]



Ferm-retail epread^t



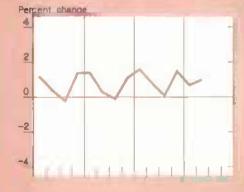
Form value/retail cost[®]



Food marketing cost index2



Index of hourly earnings^{8,6}



Index of packaging prices⁴



Index of rall freight rates⁴



Index of energy rates4



^aCPI unadjusted ^aIndex based on market basket of farm foods ^aIndex of changes in labor, packaging, transportation, energy, and other marketing costs ^aIn food retailing, wholesaling, and processing, ^aComponent of food marketing cost index

All series expressed as percentage change from preceding quarter, except for 'Farm value/retail cost' chart.

Food and Marketing

FUDU FIICES ALE DISITIU MOLE SIGNAT I IIDII 9 TEGL PAS	Food Prices	Are Risina	More Slowly	Than a Year Ago
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	1988	1989	1990	Forecast 1991
		% c	hange	
Consumer price index				
All food	4.1	5,8	5.8	2 to 4
Food away from home	4.1	4.6	4.7	3 to 5
Food at home	4.2	6.5	6.5	2 to 4
	3.5	5.0	7.3	1 to 3
Meat, poultry, and fish Meats	2.4	4.0	10.1	1 to 3
Beet and veal	55	6,4	8.0	2 to 4
Pork	-3.0	0.6	14.7	1 to 3
	2.6	2.8	9.3	2 to 4
Other meats Poultry	7.2	9.9	-0.2	-1 to 1
Fish and sealood	5.8	4.5	2.2	1 to 3
	2.3	26.6	4.7	-4 to -1
Eggs Dairy products	2.4	6.6	9.4	-3 to 0
Fats and oils	4.6	7.2	4.2	5 to 7
Fresh fruits and vegetables	7.6	8.5	8.0	5 to 7
Fresh fruits	8.3	6.6	12.1	12 to 15
Fresh vegetables	6.3	10.7	5.6	3 to 6
Processed fruits & vegetables	7.9	6.3	6.2	0 to 2
Processed fruits	10.3	3.2	8.7	-2 to 0
Processed vegetables	4.8	10.7	2.7	2 to 4
Sugar and sweets	2.7	4.7	4.4	3 to 5
Cereals and bakery products	6.4	8.4	5.7	4 to 6
Nonalcoholic beverages	0.0	3.5	2.0	1 to 3
Other prepared loods	3.7	6.4	4.5	4 to 6

Source of historical data: Bureau of Labor Statistics, U.S. Department of Labor, Forecasts by Economic Research Service, USDA.

Orange prices remained well above a year earlier for the entire season. Higher prices for oranges will likely persist into the 1991/92 season because damage to the orange trees caused by the freeze will limit production recovery.

Smaller supplies of oranges have also put pressure on supplies of other fresh fruits, causing prices of noncitrus fruits to rise as well. Rains and cool weather have affected the fresh fruit supplies from the west coast. Development of most stone fruits was slowed by the cool weather, and harvests were delayed about 2 weeks, causing gaps in market supplies and higher prices.

Most other categories of the food CPI will change very little from a year ago. The processed fruit CPI is expected to decline because of increased supplies and lower prices of oranges used for processing. Oranges used for producing orange juice come largely from Florida and were not affected by the December freeze that damaged the California crop.

Other food CPI changes will be small, and well within the all-food forecast range. [Ralph Parlett (202) 219-0870]

Labor Costs Drive Food Bill

arketing costs, the major component of food prices, have risen from 69 to 76 percent of the total cost of food over the last decade. The farm value of commodities accounts for the remaining portion of the retail price of food,

Labor is by far the largest factor in food marketing costs, accounting for 46 percent of the total. Higher labor costs were primarily responsible for the 5.9-percent increase in the marketing bill for farm

food products between 1989 and 1990. Labor costs rose 6 percent in 1990 to \$154 billion, up from a 5.2-percent increase a year earlier. The increase largely reflected rising employment in the food industry and the soaring costs of employee benefits.

Nearly 12.5 million people work in the food industry. Employment in eating and drinking establishments accounted for 53 percent of the industry's labor force, increasing 2.3 percent in 1990 from a year earlier. Retail outlets made up about 27 percent of industry employment, and food manufacturing and wholesaling employed the remainder.

Food retailing employment rose 3.3 percent in 1990 from a year earlier, reflecting the continued growth of service departments such as delicatessens, salad bars, and bakeries in supermarkets. By contrast, food manufacturing employment grew only 0.3 percent. And this was largely due to a 4-percent gain in the number of employees in poultry dressing plants to meet increasing demand for poultry products.

Health Benefits Are Key Factor in Labor Costs

Health benefits are the biggest issue affecting the current labor picture in the food industry. In 1990, health benefits became the top issue on the bargaining table as health costs escalated rapidly.

Benefits total approximately 20 to 25 percent of food industry labor costs, and health insurance premiums have been rising as much as 50 percent a year. Increased health insurance premiums are often paid for with money that otherwise would go to wage increases. Health care issues likely will be the single largest cause of labor-management conflict over the next few years.

Employers are exploring a number of cost containment methods. These include requiring a second medical opinion and approval by insurance carriers prior to surgery, and participation in health maintenance organizations. Employers have also tried to shift some costs direct-

Food and Marketing

ly to employees through higher deductibles and co-payment schemes. Some health insurance plans have reduced benefits, while others have required employees to pay a larger share of the premium.

Higher Social Security taxes are also a major cause of increased employee benefit costs. Employers experienced a sizable increase in Social Security payroll taxes in 1990 because of an increase from 7.51 to 7.65 percent in the Social Security tax rate on wages. Although the maximum taxable wage has also risen, from \$48,000 to \$51,300 in 1990 and to \$53,400 in April 1991, these increases are unlikely to affect most food industry employees.

Contracts Helped Slow Labor Cost Increases

Management and organized labor jointly developed a number of techniques—featuring wage concessions and innovative contract provisions such as backloaded contracts and lump sum payments—to hold down average earnings and benefits in the mid- and late 1980's while maintaining employment levels. A slowing of growth in labor costs was largely the result of contracts negotiated during this period.

These contracts held down growth in labor costs during the late 1980's largely because they were typically negotiated for 3-year periods. Therefore, settlements negotiated in 1987 and 1988 influenced labor costs in 1989 and 1990. Similarly, the results of 1990 contracts should have an impact on labor costs through 1993.

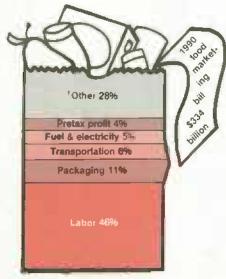
Unions have recently begun to demand restoration of concessions granted during the mid-1980's. And many other cost-cutting techniques developed during this period are being phased out as higher inflation in 1989/90 prompted unions to demand larger wage increases.

For example, lump sum payments were once a popular method of holding down labor costs. The payments were made to workers in lieu of increasing the wage rate base used to calculate benefits and future wage increases. Up to 35 percent of all food retail workers were covered by these provisions during the late 1980's. Lump sum payments have been largely eliminated from 1990 contract settlements.

Collective bargaining settlements in food manufacturing and retailing in 1990 provided larger wage adjustments than the contracts they replaced. The renewed importance of wages at the bargaining table is reflected in the 1990 hourly wage rate increase which was the largest since 1983.

This development is reflected in the renewed prevalence of front-loaded contracts, in which the largest wage increase occurs in the contract's first year. These settlements compound the amount of the percentage increases in wages in the second and third years of the contract.

Labor Is the Largest Expense In the Food Marketing Bill



¹Depreciation, rent, advertising, interest, taxes, insurance, licenses, food service, and miscellaneous items.

By contrast, back-loaded contracts provide lower wage increases in the first year of a contract relative to subsequent years. They dampen wages by basing increases in the latter years of a contract on a lower initial wage.

For example, 1987 food retailing contracts were primarily back-loaded, averaging 0.5 percent in the first year and 1.6 percent annually over the life of the contract. In contrast, 1990 contracts were largely front-loaded, with average increases of 4.6 and 3.8 percent.

Higher Minimum Wage Affects Food Prices

Wage gains for all union workers have trailed nonunion increases since March 1984. In 1990, union workers for all industries received an average increase of 3.4 percent, versus 4.2 percent for non-union workers.

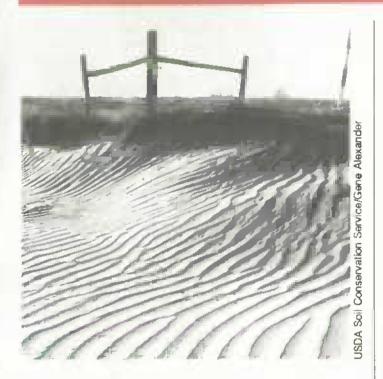
This reflects nonunion workers' lower initial wage base. Management had to grant higher increases in order to bring nonunion wages more in line with wage and benefit packages received by union workers. This trend means that any increase in union wages could be magnified, translating into higher industrywide labor costs.

The percentage of unionized workers at foodstore chains fell from 52 percent in 1989 to 45 percent in 1990. The decline largely reflects an industry practice of operating nonunion stores in new locations. Nonunion competition was a major issue at the bargaining table.

Finally, the minimum wage increased to \$4.25 an hour on April 1 of this year, following last year's increase from \$3.35 to \$3.80 an hour. The biggest impact will be felt in the nonunionized segment of the food industry—especially eating establishments. The main impact from the minimum wage increase will be felt this year, barring any further legislative initiatives to increase the minimum wage.

[Howard Elitzak (202) 219-0870]

Special Articles



How the CRP Affects Local Economies

he removal of ecologically fragile farmland from crop production, encouraged under the Conservation Reserve Program (CRP), sets in motion a series of economic effects on the local communities. With acres of previously cultivated land covered with grass or trees, a farmer's economic relationship with the local business sector inevitably changes.

The CRP, authorized by the Food Security Act of 1985, retires highly erodible farmland from production for a period of 10-15 years. In exchange for taking land out of production, farmers receive an annual per-acre rent to compensate for foregone output, and half the cost of cstablishing vegetative land cover, usually grass or trees.

Like annual supply control programs such as acreage reduction (ARP) and paid land diversion (PLD) programs, the CRP affects both local communities and the overall economy when land is retired. Locally, a farmer who plants fewer acres reduces purchases of seed, fertilizer, and fuel; operating capital and farm equipment needs are less, equipment life is extended; and repair costs are reduced. These changes affect income and spending patterns for farmers and the local economies.

Economic activity in industries linked to agriculture, such as transportation and processing, can decline with lower production resulting from the CRP, just as with other programs that decrease production. These effects tend to be concentrated in

areas where agriculture is a dominant activity and where CRP enrollment is high.

In order to address concerns that the CRP could adversely affect local businesses in high enrollment areas, enrollment is generally limited to 25 percent of a county's cropland.

From March 1986 through August 1989, nine signup periods were held, enrolling 33.9 million acres of cropland in the CRP. Under the extended enrollment authority provided by the 1990 Food, Agriculture, Conservation, and Trade Act, two additional signups were held in March and July 1991. These latest signups may bring an additional 1.6 million acres into the program.

Tradeoffs for Farmers & Communities

For individual farmers, the CRP contributes to increased control of erosion, reduced farming activity, more stable farm income, and prospects for increasing net farm income.

If the CRP improves a farmer's cash-flow position, more capital purchases can be made in the future, debt can be reduced, or savings increased. These benefits accrue to the farmer. Benefits to the local community include environmental quality improvements and, when farming expenses are reduced, more widely distributed farm household expenditures. However, local economic activity will be adversely affected if farm household spending shifts outside the community.

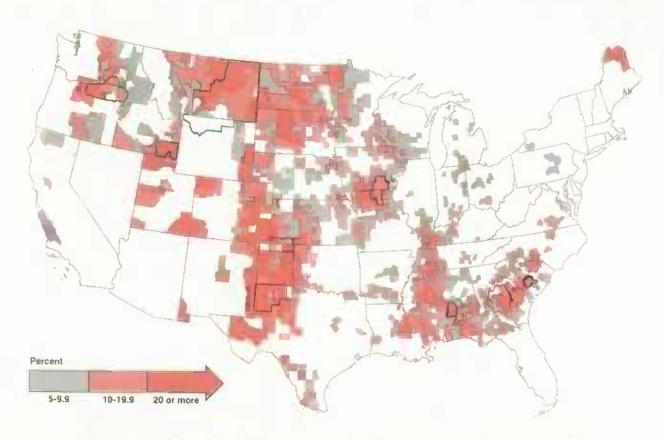
The replacement of cash receipts from crop sales with cash rental payments from the federal government means a shift in expenditure patterns. Funds previously spent for farm production—variable inputs such as fertilizer, seed, machinery repair, labor, and fuel—are released for other uses, including consumer purchases. As with previous expenditures, some of these expenditures may be made outside the local community.

When local agribusiness firms provide services or are the suppliers of manufactured agricultural inputs, and land is taken out of production, these firms lose income. Lower sales of inputs are partially offset by purchases for grass or tree establishment in the first year of retirement, and by input purchases for cover maintenance through the remaining years of retirement.

Farmers also receive less gross income from sales, due to reduced crop production and lower deficiency payments from program crops. But the lower gross income from sales is at least partially, and in some cases, more than offset by CRP rental payments, and in the first year, half the cost of payments for grass establishment. At the same time, variable expenses for production are reduced.

CRP rental payments are based on producer bids and vary with the productivity of land removed from production. Through the ninth signup, the average rental rate was \$48.93 per acre. Preliminary data from approved 10th signup bids show a higher average rental rate of \$53.96 per acre, with the highest rental

CRP Enrollment Varies by County



Share of croptand enrolled in CRP as of 9th signup. Areas designated with less than 5 percent enrollment include counties with no croptand, no enrollment, or that provided no data.

rate in the Com Belt and the lowest in the Mountain region. The CRP bid reflects farmers' projections of annual net farm income from usual cropping patterns over 10 years, and the cost of cover establishment and maintenance, but without the expected annual fluctuations of net farm income.

Local Impacts Depend On Several Factors

The impact of the CRP on a local economy depends on:

- the percent of cropland enrolled in the CRP (the enrollment rate);
- the diversity of the local and regional economy;
- the distribution of total farm sales by crop; and
- the crop production foregone on acreage enrolled in the CRP.

For the nation as a whole, where CRP acreage represents less than 8 percent of all cropland and the farm production sector accounts for less than 5 percent of all economic activity, changes in spending patterns due to lower production are of little consequence.

With a given enrollment rate, however, local and regional impacts will be greater in areas where the farm sector is a dominant economic activity, crop production is a major activity in the farming sector, and the foregone crops have a high peracre value in terms of inputs and sales. Local impacts are largest in the Plains states where enrollment rates often exceed 10 percent of all cropland and farming plays a major role in the regional economy.

ERS examined local impacts of the CRP on 10 local economies of multicounty trading areas defined by Rand McNally, in four regions—the West, Great Plains, Com Belt, and the Southeast. The economic impacts include shifts in income and expenditure patterns that arise when crop sales and government payments for program commodities are decreased, purchases of variable inputs are reduced, and CRP rents provide a new source of income.

Special Articles

	Share	of total	Share of	. CRP e	nrollment *
		nent (1987)	tarmland	Total	Share of
Region/area	Farming	Agnbusiness	în crops	acres	total Cropland
	P6	rcent	Percent	1,000	Percent
West:		0.0	40.5	429	169
Walla Walla, WA	16.0	99	46.5		
Pocatello, ID	10,4	8.6	57.7	341	30.2
Great Plains:					
Billings, MT Liberal, KS-	13.2	2.6	23.6	1,529	18.5
Guymon, OK	20.1	122	44.4	566	22.7
Lubbock, TX	10.4	5.2	60.0	1,340	24.5
Com Belt:					
Kirksville, MO	23.8	9.6	66.2	167	176
Ottumwa, IA	20.5	8.4	75.6	230	14.5
Southeast:					
Selma, AL	10.7	12.2	44.2	74	29.6
Macon, GA	4.7	9.2	58.9	217	19.3
Orangeburg, SC	8.8	7.1	69.5	68	20.8

^{*} Through the 9th signup

Much of CRP Coverage Was Formerly Planted to Wheat

				CRP acres form	nerly planted to:			
Region/area	Wheat	Corn	Barley	Sorghum	Soybeans	Cotton	Oats	Fallow
				Percent of to	tal enrollment			
West:								
Walla Walla, WA	53.4		29.4	dans.	400		0.3	16,9
Pocatello, ID	36.7	_	30.9		_	_		32.4
Great Plains:								
Billings, MT	40.1	_	21.2	_	_	_	2.3	36 4
Liberal, KS-								
Guymon, OK	51,7	_	_	- 28.9		_		19,4
Lubbock, TX	15.7	1,5	_	15.4	_	51.9	_	15.5
Corn Belt:								
Kirksvile, MO	19.4	17.6	_	2.9	60.1	_	_	_
Ottumwa, IA	3.5	43.8		_	48.6	_	4.1	
Southeast:								
Selma, AL	35.7	4.5	_	_	58.4	1.4	_	
Macon, GA	41.6	128	_	_	43.0	2.6	_	_
Orangeburg, SC	28.3	16.8	_	_	51.7	3.2	_	_

The estimated economic impacts presented here should be considered upper-bound estimates, covering a period of several years. They should be viewed this way because, if the CRP were not in effect, acreage retirement under other annual programs such as ARP and PLD would be higher, providing some of the same effects as the CRP.

Also, other factors, such as the present and future value of environmental benefits for farm productivity and the local community, as well as increased income from other sources of economic growth, are not included here. These factors would mitigate or offset some reported declines in activity associated with the CRP.

Each of these multicounty areas was selected because of its relatively high CRP participation—15 percent or more of total eropland. Individual counties in a Rand-McNally area may have greater or smaller enrollment rates. Enrollment varies among the 10 areas, from 68,000 acres in the Orangeburg, South Carolina area of the Southeast region to 1.53 million acres in the Billings, Montana area.

In addition, the share of farmland in crops in these areas is high. In 9 of the 10 areas examined, more than 40 percent of farmland is engaged in crop production. Only in the Billings, Montana area of the Great Plains region is the share of land in crops low—approximately 24 percent.

Effects of Spending Patterns Depend on Economic Diversity

The estimated economic effects of acreage retirement under the CRP depend in part on the economic diversity of the area and on the particular crop removed from production.

One measure of diversity in these multicounty areas is the importance of the farm sector. The share of total employment in farm production and agribusiness ranges from less than 14 percent in the Macon, Georgia area (Southeast region) to over 33 percent in the Kirksville, Missouri area (Corn Belt region). The greater diversity in some local economies, indicated by lower employment related to agriculture, tends to lessen economic impacts of changes in income and spending patterns from decreased crop production.

Even in these areas of high CRP enrollment, the impact of changes in income and spending patterns associated with acreage retirement is small. In the two areas of the West, the potential impacts related to the CRP are 2-percent declines in area economic activity. Potential impacts in the Great Plains vary from less than a 1-percent decline in economic activity in the Billings, Montana area to a 3.5-percent fall in the Lubbock, Texas area.

Impacts in the Com Belt are the greatest, with potential declines of 5.7 and 3.2 percent in economic activity in the areas of Kirksville, Missouri and Ottumwa, Iowa. But in the Southeast region, the potential impact on economic activity related to the CRP is small, less than 1 percent in each of the three areas.

Acreage enrollment alone provides only part of the picture of CRP-related impacts. Simply because an area records high enrollment in the CRP does not mean the area will experience stronger economic impacts from the program. The type of crop removed from production also plays a role.

For example, the Billings, Montana area has the largest number of acres in the CRP in this study—over 1.5 million. But the estimated economic impacts in this area are less than 1 percent, partly reflecting the previous use of land removed from production.

The retired acreage replaced a wheat-barley-fallow cropping pattern. Without the CRP, the land generates low income because wheat and barley yields are low, and one-third of the acreage is summer fallow in any given year. Thus, the CRP boosts income in this area with payments on land that in some years produces no income. Also, more than 84 percent of this area's employment is nonagricultural, so farm dependency is not high.

What's Behind the Resulfs?

A regional input-output model called IMPLAN (Impact Analysis for Planning) was used to derive the potential economic impacts associated with the CRP. IMPLAN was developed by USDA's Forest Service and covers 528 industries at the county level.

An economic shock is introduced into the model, and subsequent income and employment effects can be traced through industries and regions. Although the impact of CRP is actually phased in during a series of signups and is phased out over several years as CRP contracts expire, the IMPLAN analysis discussed here considers cropland retired during the first nine signups as a single shock. In addition, calculation of the shock does not consider the mitigating effect of crop price increases from CRP-induced supply reduction nor the value of increased environmental quality.

Furthermore, the reduced level of economic activity indicated here is for the years of grass maintenance (years 2-10) rather than the first-year grass establishment. Impacts are less during the first year because substantial expenditures for establishing a cover crop (approximately \$40 per acre) offset more of the impact of reduced crop production than does the subsequent \$5-per-acre grass maintenance expenditure.

In the analysis, the "shock" is calculated as follows:

Rental payments to farmers

- + grass maintenance costs (years 2-10)
- crop sales foregone
- government payments foregone
- = total economic shock.

This not impact is aggregated for all CRP acres recorded in each multicounty area and is used as the shock in IM-PLAN to trace economic impacts in farm-related sectors as well as the overall area economy.

CRP rental payments to farmers reflect actual bids across all CRP acres enrolled in the regions covered in this study. Grass establishment costs are actual costs reported by farmers. Annual grass maintenance costs paid to farmers are assumed to be \$5 per acre. Crop sales foregone are calculated using USDA records on the number of acres of specific crops in the region removed from production, regional crop yield data from the Census of Agriculture, and state commodity prices published in Agricultural Prices. Government payments foregone are calculated using program yield data and 1989 deficiency payment rates for each crop taken out of production.

Special Articles

Region/area	Change in economic activity
	Percent
Vest:	
Walia Walia, WA	-2.1
Pocatello, ID	-1.9
Great Plains:	
Billings, MT	-09
Liberal, KS-	
Guymon, OK	-1.5
Lubbock, TX	-3.5
om Belt:	
Kirksville, MO	-5.7
Otturiwa, IA	-3.2
outheast:	
Selma, AL	-0.8
Macon, GA	-0.3
Orangeburg, SC	-0.8

However, economic impacts in the Kirksville. Missouri area are estimated to be more pronounced, even though CRP enrollment is relatively low. Among the West, Plains, and Corn Belt regions, this area recorded the fewest acres in the CRP, only 167,000. But over 33 percent of the employment is agriculture-related, the highest of any area in the study. Of the acres enrolled in the CRP, over 60 percent replaced soybeans, with the remaining acreage replacing wheat (19 percent) and corn (18 percent).

The potential economic impacts reflect the importance of farming in this area. The level of economic activity in the Kirksville, Missouri area is estimated to be 5.7 percent lower due to the changes in spending patterns arising from acreage retired under the CRP.

In the two areas examined in the Western region, CRP enrollment and farm dependency are quite different. In the Pocatello, Idaho area, over 30 percent of the cropland is enrolled in the CRP, but only 19 percent of employment in this area is agriculture-related. By contrast, just 17 percent of the cropland in the Walla Walla, Washington area is enrolled in the CRP, but 26 percent of all employment is agriculture-related.

Moreover, summer fallow accounts for nearly a third of the total acreage enrollment in the Pocatello area. Since summer fallow acres generate no income in some years, but enrollment in the CRP earns a rental payment every year, income from the CRP further offsets potential gross income declines from reduced production. In these two areas, the offsets between farm dependency and acreage enrollment mean the potential impacts of the CRP are roughly similar. The study estimated the potential declines in economic activity at about 2 percent for both areas.

CRP Impacts Extend Beyond Local Areas

The CRP affects the nation and the entire rural economy in diverse ways. The CRP contributes to increased erosion control, improved water quality, reduced surplus commodities, and more stable income for farmers. The CRP also provides increased wildlife habitat, with possible associated increases in recreation income to local economies.

Program costs for the CRP will be partially offset by smaller outlays for surplus program commodities, including deficiency payments and storage costs. With less land in cultivation, crop production declines and commodity prices are buoyed somewhat. With water quality and wildlife values improved, land values increase.

The estimated economic impacts related to different spending patterns associated with the CRP in 10 areas of the nation suggest that the CRP will not severely affect economic activity in any of the areas. Some selected businesses, however, such as farm input suppliers, are likely to be more strongly affected by the CRP. [Fred Hines, Judith Sommer. and Mindy Petrulis (202) 219-0525]

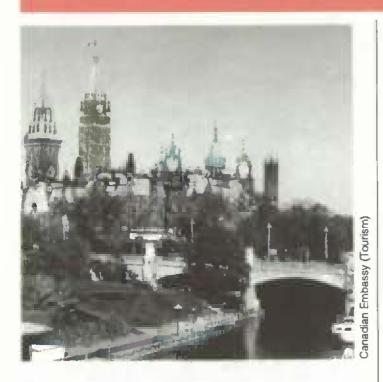
Upcoming Reports from USDA's Economic Research Service

The following are September release dates for summaries of the ERS reports listed. Summaries are issued at 3 p.m. Eastern time.

September

- 5 Western Europe
- 11 Agricultural Income & Finance
- 17 Tobacco
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- 19 Fruit & Tree Nuts
- 20 Agricultural Outlook
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- 25 Aquaculture

Special Articles



Canada's GRIP
Program: A Boon for
Wheat Producers?

Beginning with the 1991/92 Canadian crop year, Canada's Gross Revenue Insurance Plan (GRIP) provides a new safety net for grain and oilseed producers. The program, one of Canada's most significant pieces of agricultural legislation in the last 50 years, is designed to help stabilize farm incomes by reducing the revenue risk from yield and price variability.

GRIP has received considerable attention in recent months, mainly because it offers support for many crops at levels that are above current world prices. It also offers coverage for some crops that have received much lower support in the past. Although GRIP covers several crops, this article focuses on wheat.

Because of its broad crop coverage and relatively high support price, many analysts believe that GRIP will provide a "boon" to Canadian farmers. According to the Canadian government, estimated outlays under GRIP could reach Can\$2.7 billion in 1991/92 (August-July), nearly Can\$1 billion more than 1989/90 budget outlays for grains and oilseeds, but considerably less than the Can\$3.6 billion in 1987/88.

GRIP is a voluntary program jointly funded by farmers, provincial governments, and the Federal government. GRIP is designed eventually to supplant current safety net programs,

including the Western Grain Stabilization Program, the Agricultural Stabilization Act, and other program support of recent years, such as the Special Canadian Grains Program.

Producers Have Options Under the New Plan

Farmers who enroll in GRIP must pay a premium, which varies with the program options: crop and revenue insurance, revenue, insurance only, or crop insurance only.

The choice of program option affects the likelihood of collection. If both prices and yields are high, the farmer would not collect under any of the options. If prices are low and yields are high, farmers who signed up for revenue insurance alone or both crop and revenue insurance might be able to collect. But a farmer who signed up only for crop insurance would be unlikely to receive a payment in this case.

Crops eligible for GRIP include wheat, barley, oats, canola, soybeans, rye, flaxseed, mustard seed, canary seed, mixed grain, and perennial crops. All of a participating farmer's production of eligible crops receives protection. Commodities not eligible, including livestock, sugarbeets, and horticultural products, will continue to receive price support under previously established programs.

For either of the revenue insurance options, GRIP guarantees minimum levels of "target revenue." Farmers receive a GRIP payment when the market revenue for a crop falls below the target revenue. The target revenue, established at planting time, is obtained by multiplying:

- the farmer's historical yield—based on a long-term average yield;
- . the farmer's seeded acreage;
- the province's support price—based on a 15-year average of market prices, indexed for input costs, known as the Indexed Moving Average Price (IMAP); and
- the established coverage level—for 1991/92, the minimum coverage level is 70 percent of the province's IMAP.

Market revenue, calculated at the end of the crop year, is obtained by multiplying:

- the weighted-average market price received over the crop year in the province for the grade of commodity produced by the farmer;
- · the farmer's actual yield; and
- the farmer's seeded acreage.

Special Articles

	Unit	Low price- low yield	Low price- high yield	High price low yield
1. IMAP ¹	Can\$/bu	5.71	5.71	5.71
2. Coverage level	Percent	70	70	70
3, Crop insurance:				
4 Elected coverage	Percent	70	70	70
5. Yield guarantee =				
coverage x historical yield	Bushels	21	21	21
6. Expected GRIP revenue premium/acre	Can\$	10-13	10-13	10-13
7. Enrolled acres	Acres	500	500	500
8. Historical yield/acre	Bushels	30	30	30
9. Actual yield/acre	Bushels	19	32	19
0. Actual market price	Can\$/bu	2.50	2,50	3,30
1, Target revenue =				
(1 x 2 x 7 x 8)	Can\$	59,955	59,955	59,955
2. Market revenue =				
(7 x 9 x 10)	Can\$	23.750	40,000	31,350
3. Crop insurance payment =				
([5-9] x 7 x 10)	Can\$	2,500	0	3,300
4. Revenue insurance payment =				
(11 - 12 - 13)	Can\$	33,705	19,955	25,305
5. GRIP support =				
(13 + 14)	Can\$	36,205	19,955	28,605
5. Total return from GRIP and market =				
(12 + 15)	Can\$	59,955	59,955	59,955
hare of support from:				
GRIP—revenue Insurance	Percent	56	33	42
crop insurance	Percent	4	0	6
Market revenue	Percent	40	67	52
eturns/acre:	, , , , , , , , , , , , , , , , , , , ,			-
otal (\$59,955 / 500 acre)	Can\$	1 19.91	119.91	119.91
GRIP Support per acre	Can\$	72.41	39.91	57.21
Market return per acre	Can\$	47.50	80.00	62 70
et gain from GRIP: 2				
Total support/acre				
- market return/acre				
- revenue premiums/acre	Can\$	60.91	28.41	45.71

Farmers who buy only crop insurance receive a payment when their actual yield falls below their historical yield multiplied by the established coverage level.

Unlike the U.S. grain programs, GRIP does not require farmers to reduce their planted acreage in order to receive benefits. However, GRIP places a 10-percent cap on the increase in a farm's total seeded acreage for 1991/92 over the farm's average acreage of the last 3 crop years. This cap applies in all provinces.

Except in Saskatchewan, GRIP does not control the individual crops a producer can plant within this seeded acreage base. Saskatchewan has placed a 20-percent cap on any individual crop acreage increase over 1990/91 acreage.

GRIP Offers Higher Prices Than CWB This Year

GRIP support prices for wheat, based on 70 percent of an individual province's Indexed Moving Average Price, were announced for the Prairie Provinces—Canada's main grain-producing area—in March 1991. Because the IMAP is based on a 15-year average of market prices, it includes the relatively high prices of the late 1970's and the early 1980's.

As a result, GRIP support prices exceed the Canadian Wheat Board's (CWB) initial prices. (Initial prices have been a major form of government support for Prairie Province grain since 1935.) For red spring wheat, the dominant Prairie Province

grain, the 1991/92 GRIP support price of Can\$4.15 per bushel exceeds the 1991/92 CWB initial price (Can\$2.59) by 60 percent. For durum, the GRIP support price is Can\$4.49 compared with the CWB initial price of Can\$2.45.

Because GRIP payments are not scheduled to be made before the end of the crop year, there is speculation that an interim GRIP payment might be made before then. This is a consequence of the low level of initial CWB payments for wheat in 1991/92. These are the lowest initial CWB prices in 16 years.

GRIP Participation High, But Lower than Expected

While the CWB will continue its initial payment policy, the IMAP is a dominant factor this year affecting farmers' decisions on GRIP participation and on which crops to plant.

Despite the high GRIP support price, final enrollment data show GRIP participation at lower levels than many observers expected early in the spring. Agriculture Canada released survey data in early June indicating that 127,335 farmers had signed up by the May 15 deadline. This represents about 75 percent of eligible farms and 83 percent of eligible acreage. Early in the spring, some analysts estimated that GRIP enrollment would reach 90 percent.

Enrollment varies widely by province. Among the Prairie Provinces, Saskatchewan pegged the highest enrollment with 90 percent of eligible acreage, compared with 80 percent for Manitoba and 75 percent for Alberta. Ontario's enrollment was 80 percent.

Several factors may account for lower enrollment than expected. Some farmers surveyed by Agriculture Canada indicated that the program did not apply to their farms or that they did not grow enough grain to make the program worthwhile. In the Prairie Provinces, this is most evident in Alberta, which is relatively more dependent on cattle operations.

Also, because GRIP is a new program, farmers face a "learning curve" reflected in hesitation about new or unfamiliar program provisions and operation. In addition, CWB initial prices had not been released as of the May 15 deadline.

	GRIP support	CWB
Wheat class	price, 1991/92	initial price, 1991/92
	Сал\$/bu	Can\$/bu
Red spring	4.15	2.59

Acreage Is Influenced By GRIP Incentives

Planting decisions depend heavily on analysis of expected profitability, including a comparison of market net returns and GRIP net returns. Crop rotations and weather conditions are also important variables. It is difficult to isolate the influence of GRIP on crop allocation, but the program likely had a large effect on many farmers' profit expectations and therefore on decisionmaking for the 1991/92 crop.

Wheat planted area, in particular, has received considerable attention, since wheat accounts for about 50 percent of acreage planted in the Prairie Provinces. Using estimates for 1991/92 prices and yields for crops in the Prairie Provinces, for example, a comparison of GRIP net returns and average market net returns shows that gains from the GRIP program on average would be highest for wheat, followed by barley and canola.

According to Agriculture Canada, preliminary estimates show that all wheat area is 1 percent above 1990, with spring wheat area up 3 percent. In addition to favorable weather this spring, farmers now have a safety net that offers more certainty than in the past, which likely affected planting decisions. If farmers enrolled in GRIP suffer poor yields and their revenue trigger is reached, they have the income support of the GRIP program.

Overall, farmers in the Prairie Provinces have increased area planted to wheat and canola, and have reduced area planted to oats, barley, and summer fallow. Canola area is up 24 percent from 1990, while barley area is down slightly and oats area is 87 percent of 1990's level. Oats plantings in particular appear relatively unattractive in a comparison of GRIP net returns among crops.

Changes in summer fallow area—which registered a 5-percent drop—may reflect GRIP provisions. A farmer participating in GRIP can expand planted area by up to 10 percent from year to year. Farmers incur little risk—and a potential gain—by bringing fallow land into production. If the crop fails or the revenue trigger is reached, the farmer receives a GRIP payment, at a level considerably higher than expected market prices.

GRIP Builds In "Moral Hazard" Offsets

Besides planted area, the effects of GRIP on yield are an important variable affecting production. Under certain circumstances, farmers might consider reducing their input levels with the GRIP program in place. For example, a farmer might sign up for GRIP with the expectation of reducing input use (and consequently lowering yield), triggering a GRIP payment and bringing a greater return than sales of the (higher yielding) crop in the market.

Special Articles

	Red spring wheat	Durum wheat	Barley	Canola	Oats
	Wileat	#:leat	Dairey	Odifold	Vals
			Can\$ per acre		
Net returns from GRIP					
in 1991/92:					
Alberta	91,13	86.52	77. 68	107.31	61.29
Saskatchewan	67.79	64.53	59.67	103.54	41.86
Manitoba	84.63	84.52	69.50	93.92	45.41
Net returns from market					
in 1991/92 2					
Alberta	50.57	37.12	49.53	99.31	74.68
Saskatchewan	37.09	26.01	37.22	95.42	53.00
Manitoba	45.80	38.15	43.22	86.18	61.44
International state					
Gain from GRIP:					
Alberta	40.56	49.40	28.15	8.00	-13.40
Saskatchewan	30.70	38.52	22,45	8.12	-11.14
Mandoba	38.84	46.37	26.28	7.73	-16,03

This situation—known as "moral hazard"—involves changes in a farmer's management practices that increase the likelihood of collection. Moral hazard is a potential problem in a year when expected market prices are low relative to the historical average. Certain farmers who sign up for GRIP may attempt to maximize not revenue by lowering production costs and triggering a GRIP payment.

In deciding to reduce input use, a producer needs to compare the target revenue (less the reduced production costs and GRIP premium) with the expected market return that would result from "normal" input use, higher production costs, and no GRIP payment. Precautions built into the GRIP program partially help offset the attractiveness of reduced input use and moral hazard:

- Multiyear signups—Farmers who sign up for GRIP must do so for a multiyear period (4 years in Saskatchewan and Alberta, 5 years in Manitoba). Farmers may leave GRIP, but must give at least 2 years' notice. As a result, farmers cannot simply enroll in a year when market prices are expected to be low.
- Coverage effects—Future coverage is affected if a farmer signs up for GRIP, reduces input use, and realizes a loss.
 Low yields in any year contribute to lower coverage in future years because payment yields for GRIP are calculated as a 15-year moving average of historical yields.

In general, producers would be most likely to reduce input use if market conditions favored GRIP payment collection, as described above, or if the farmer planned on leaving the GRIP program in the near future. For most producers, however, moral hazard and reduced input use will not be a main reason for GRIP signup. Most farmers see the program as a long-run risk management plan to ensure against crop failure or very low market prices.

The Prairie Provinces received an unusually high level of rainfall during April through June. However, hotter conditions in July and August and hail damage have caused crop conditions to deteriorate. Further information on input use and yields will not be available until closer to harvest, which begins in late August and early September. At this point, the outlook for the 1991/92 crop could be characterized as average.

Clearly, GRIP's effects on Canada's crop production depend not only on land use allocation, but on input use and yield. [Mark Simone (202) 219-0610 and Joy Harwood (202) 219-0840] [AO]

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Statistical Indicators

Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector

	1989	1990							
					1991				1992
	Annual	Annual	1	10	HIF	IVF	Annual F	IF	Annual F
Price® received by farmers (1977=100)	147 180	150 170	148	152	140	139	144	140	_
Livestock & products Crops	134	128	167 124	165 138	161 117	161 117	164 124	158 121	_
Prices paid by farmers, (1977=100) Production Rems Commodities & services, Interest, taxes, & wages	165 178	171 184	173 488.	175 190	173 189	=	171 187	Ξ	Ξ
	450	407	450	4.00	4 80	14.55			
Cash receipts (\$ bil.) 1/ Livestock (\$ bil.) Crops (\$ bil.)	159 84 75	167 89 78	158 8 5 73	1 69 85 83	173 89 85	165 93 72	164-169 86-90 76-80	_	=
Market backet (1982-84=100)									
Retail cost Farm value	125 107	134 114	137 109	139		_	_		
Spread	134	144	153	154		_		_	-
Farm value/retail cost (%)	30	30	29	28		_	_		-
Retail prices (1982-84-100)									
Food At home	125 124	132 132	136 136	137	_	15:	135-139	_	_
Away from home	127	133	136	137			135-137 138-141		
Agricultural exporte (\$ bil.) 2/ Agricultural importe (\$ bil.) 2/	39.7 21.5	40.1 22.5	11.3 5.8	8.8 5.5	8.4 5.3	Ξ	37.0 22.5	=	Ξ
Commercial production									
Red meet (mll. lb.)	39.418	38,608	9.484	9.635	10,062	10.348	39.607	9.795	40.388
Poultry (mil. lb.) Egge (mil. doz.) Milk (bil. lb.)	22,039 5,598 144.3	23.635 5.660 148.3	5,837 1,418 37.5	6,268 1,417 38.7	6.275 1,425 36.5	8.370 1,455 36,1	24,750 5,714 148,6	6,100 1,430 37.9	25,735 5,745 150.0
Consumption, per capita * Red meat and poultry (lb.)	210.4	210.8	50.9	53.2	54.7	57.0	215 8		_
Corn beginning stocke (mil. bu.) 3/ Corn use (mil. bu.) 3/	4.259.1 7.260.1	1.930.4 8,113.4	1,344.5 2.338.1	6,940.3 2,151.6	4,789.0 1,798.3	2,991.9 1,461.9	1,344.5 7,750.0	1,530.0	7,725.0
Prices 4/									
Choice steers—Neb. Direct ** Barrows & gilts—7 mkts. (\$/cwt)	73.86 44.03	78.56 54.45	80.06 51.50	77 92 53.34	68-72 49-53	73-79 43-49	75-77	74-80	73-79
Brollers—12-city (cts./lb.)	59.0	54.8	51.2	52.2	50-54	44-50	49-51 50-52	41-47 48-52	43-49 47-53
Eggs—NY gr. A large (cté./doz.) Milk.—atl at plant (\$/cwt)	81.9	82.2	85.9	70.2	75-79	77-83	77-79	75-89	73-79
	13.57	13.68	11.80	11.37	11.80 - 12.40	12 40 13.40	11.80- 12.20	11.25- 12.25	11.30- 12.30
WheatKC HRW ordinary (\$/bu.) CornChicago (\$/bu.)	4 36	3.44	2.81	3.00	_	_	_		_
Soybeans—Chicago (\$/bu.)	2.55 6.70	2 51 5.93	2.45 5.70	2.51 5.73					
Cotton—Avg. spot 41-34 (cts./lb.)	63.7	71 3	75.4	81.0		_	_		_
	1983	1984	1985	1986	1987	1988	1989	1990	1991 F
Gross cash Income (\$ bil.) Gross cash expenses (\$ bil.)	150.8 111.0	155.5 119.0	157.2 109.3	152.0 105.2	164.3 108.2	170.4 112.3	177.5 122.8	183 125	179-184 124-129
Net cash income (\$ bil.) Net term income (\$ bil.)	39.5 15.3	36,6 26,3	47.9 31.0	46.7 31.0	56.1 41.3	58.1 41.8	54.6 46.7	58 47	52-57 40-45
Farm real estate values 5/									
Nominal (\$ per acre) Real (1982 \$)	78 8 788	801 771	713 682	640 577	599 526	632 538	86 1 545	668 529	682 519

^{1/} Quarterly data seasonally adjusted at annual raise. 2/ Annual data based on Oct.—Sept. fiscal years ending with year Indicated: 3/ Sept.—Nov. first quarter; Dec.—Feb. second quarter; Mar.—May third quarter; Jun.—Aug. fourth quarter. Sept.—Aug. annual. Use includes exporte & domestic disappearance. 4/ Simple averages, Jan.—Dec. 5/ 1990—91 values as of January 1, 1986—89 values as of February 1, 1982—85 values as of April 1. F = forecast, — = not available.

^{*} The pork carcass to retail conversion factor has been revised. ** Omaha Choice steer price has been replaced by the Nebraska Direct, 1,100–1,300 lb. Choice steer price.

U.S. & Foreign Economic Data

Table 2.—U.\$. Gross National Product & Related Data

		Annuel			1990			1991
	1988	1989	1990	ıì	III	IV	1	II P
			6 billion (que	rteriy data #84	eonaily adjust	ed at annual r	nies)	
Gross national product	4.873.7	5,200,8	5.465.1	5.443.3	6.514.6	5.527.3	6.657.7	5.620.5
Personal consumption	2 222 2	0.480.4	3,657.3	3.622.7	9.000.4	3.724.9	3,742.8	3,798.6
expenditures Durable goods	3.238.2 457.5	3.450.1 474.6	480.3	478.4	3.693.4 482.3	468. 5	455.3	462.2
Nondurable goods	1.000.0	1.130.0	1,193.7	1,179.0	1,205.0	1,216.0	1,212.7	1,218.0
Clothing & shoes	191.1	204.6	213.2	212.0	215.8	211.5	213.3	218.8
Food & beverages	562.8	595.3	824.7	623.3	629.6	829.4	636.7	639.7
Services	1,720.7	1,845.5	1,963.3	1,965.3	2.006.2	2.040.4	2,074.8	2,118.5
Gross private domestic investment	747.1	771.2	741.0	759.0	759.7	698.3	660.0	663.1
Fixed Investment	720.8	742.9	746.1	745.6	750.7	729.2	694.1	691.3
Change in business inventories	26.2	28.3	-6.0	13.4	9.0	-30.8	-34 2	-28 3
Net exports of goods & services	-74.1	-46.1	-31.2	-24 9	-41.3	-28.8	13.5	₽.4
Government Purchases of	007.5	1.005.8	1.000.1	1,086.4	1,102.8	1,132.9	1,141.5	1,149.4
goods & services	962.5	1,025.6	1,098.1				-	1,1707
			1982 \$ billion	(quarterly del	ta seasonally e	idjusted at and	nual fates)	
ross national product	4,018.9	4,117.7	4,157.3	4,155.1	4,170.0	4,163.4	4,124.1	4,126.4
Personal consumption expenditures	2.608.5	2,656.8	2,681.6	2,678.8	2.696.8	2,673.6	2,663.7	2.687.2
Durable goods	418.2	428.0	427.4	426.6	429.5	415.8	402.9	408.0
Durable goods Nondurable goods	909.4	919.9	911.1	911.2	916.4	901.2	897.1	\$99.3
Clothing & shoes	165.0	172.7	172.6	171.3	174.4	170.8	167.0	171.4
Food & beverages	462.2	462.9	457.4	459.3	459.4	453. 6 1. 356.7	453.5	451.1 1.379.6
Services	1,278.9	1.309.0	1,343.1	1,340.8	1.350.6		1.363.7	
iross privata domestic investment	705.7	716.9	688.7	700.7	097.0	656.3	623.7	825.1
Fixed investment	6 82.1	693.1	692.3	691.2	692.3 4.7	682.7 -26.4	648.6 -25.0	647.1 -21.2
Change in business Inventories	23.6 -75.9	23.6 -54.1	-3.6 -33.8	9.5 -44.8	-46.5	-8.8	7.1	-18.
Net exports of goods & services Government purchases of	-70.0	-0	-63.0	***************************************		0.0	,,,	10.4
goods & services	760.5	798.1	820.8	820.2	\$22.7	\$32.3	\$29.8	833.6
NP implicit price deflator (% change)	3.3	4.1	4.1	4.7	3.7	2.8	5.2	3,6
Disposable personal income (\$ bil.)	3,479.2	3.725.5	3.946.1	3,925.7	3.989.1	4,001.9	4,021.3	4,058.2
isposable per, income (1982 \$ bil.)	2.800.5	2,869.0	2,893.5	2.902.8	2,898.0	2.872.4	2,861.9	2,870
er capita disposable per, income (\$)	14,123	14.973	15,695	15,639	15.765	15,849	15,887	18,00
er cepita die. per, income (1982 \$)	11,368	11,531	11,509	11,564	11,511	11,376	11.307	11.32
J.S. population, total, Incl. military sbroad (mil.)	246.4	248.8	251.4	251.0	251.8	252.5	252.9	253.3
Sylian population (mil.)	244.1	246.6	249.2	248.9	249.8	250.4	250.8	251.
. , , ,		Annual		1990		1	991	
			4004		-			luna F
	1988	1989	1990	June	Mar	Apr	May	June F
			N	Ionthly data #	seconally adju	eted		
ndustrial production (1987=100)	105.4	108.1	109.2	110.1	105.0	105.5	106.2	106.0
eading economic indicators (1982=100)	142.7	144.9	144.0	146.2	141.4	141.8	142.9	143.4
ivilian amployment (mil. persons)	115.0	117.3	117.9	118.2	116.7	117.4	116.6	118.
ivilian unemployment rata (%)	5.4	5.2	5.4	5.3	6.8	6.6	6.9	7.
Personal income (\$ bil. annual rate)	4.070.8	4.384.3	4,845.5	4,640.7	4,750.4	4,755.1	4,780.0	4.802.
doney stock-M2 (daily avg.) (\$ bit.) 1/	3,069.9	3.223.1	3.327.8	3,290.6	3.374.9	3.882 5	3,394.9	3,398
hree-month Treasury bill rate (%)	8.69	8.12	7.61	7.74	5.91	5.67	5.51	5.8
AAA corporate bond yield (Moody's) (%)	9.71	9.26	●.32	9.26	8.03	8.86	8.86	9.0
lousing starte (1,000) 2/	1,488	1.376	1.193	1,187	907	977	989	1,04
juto saise at retall, total (mil.)	10.6	9.9	9.5	9.8	8.7	7.9	8.4	9,0
Business inventory/sales ratio	1.49	1.51	1.51	1.49	1.57	1.54	1.51	D 454
ales of all retail stores (\$ bil.)	137.6	145.1	150.6	150.3	151.5 97.7	151.0 97.5	152.2 98.3	P 151.
Nondurable goods stores (\$ bil.)	85.3 27.2	90.8 28.8	96.0 30.2	96.0 30.2	30.9	30.7	30.9	
Food stores (\$ bil.) Eating & drinking places (\$ bil.)	13.9	14.5	15.2	15.3	16.5	15.6	15.7	P 15.
Apparel & accessory storas (\$ bil.)	7.1	7.8	7.9	8.1	7.9	8.1	8.2	
		Annual		1990		1	991	
	1988	1989	1990	July	Apr	May	June	July
Sarajan ayahanga yajus af tha dalla-	1988	1989	1990	July	Apr	May	June	July
Foreign exchange value of the dollar Japanese yen per U.S. dollar	1988 128.2 1.757	1989 138.1 1.881	1990 145.0 1.617	July 149.0 1.640	137.1 1.703	138 1 1.720	June 139.8 1.780	July 137.0 1.780

^{1/} Annual data as of December of the year listed. 2/ Private, including farm. P = preliminary. — = not available.

Information contact: Ann Duncan (202) 219-0313.

Table 3.—Foreign Economic Growth, Inflation, & Export Earnings

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 [°] F	1992 F	Average 1981-90
_					Anns	al Percent	change		+			
World, less U.S.	4.4			0.5	2.0	0.4						
Real GDP	1.1	2.2	3.8	3.5 13.1	10.3	3.4 13.3	4.5	3.5	2 4	1.6	2.7	2.6
Consumer prices	13.5	12.3	12.8 5.4	1.8	11.7	18.9	21.8	42.7	43.2	45.1	30.2	19.7
Merch, exports	-7.9	-1.5	D.4	1.8	11.7	10.0	12.6	7.3	14.9	8.9	8.9	6.1
Developed less U.S.	1.0	2.1	3.7	3.4	2.7	3.2	4.5	3.7				
Real GDP		5.0		4.2	2.4	3.0	3.3		3.3	2.0	3 1	2.9
Consumer prices	7.5 -4.4	-0.5	4.7 6.3	4.8	19.4	17.8	12.2	4.4	4.9	4.6	3.0	5.0
Merch. exporte	-4.4	-0.0	0.3	4.0	19.4	17.8	12.4	6.0	17.1	10.3	8.3	7.5
Developing Real GDP	1.9	1.3	4.5	4.5	2.8	4.1	4.2		2.6	2.9	4.7	
	25.3	32.9	38.3	38.6	30.2	41.0	70.2	105.0	117.7	40.9	26.4	3.2
Consumer prices	-13.3	-3.3	3.8	-3.2	-3.4	19.7	14.3	10.2	9.2		11.5	52.8
Merch, exporte	-13.3	-3.3	3.0	-3.2	-3.4	10.7	14.3	10.2	9.4	7.0	11.0	3.2
Real GDP	6.7	8.1	8.4	6.9	6.9	8,1	9.0	5.5	5.3	5.0	5.2	7.0
Consumer Prices	6.4	6.6	6.1	6.0	8.7	9.5	14.3	11.7	7.9	9.1	9.2	8.7
Merch, exports	-0.5	4.6	14.6	-0.9	8.8	30.1	23.2	11.5	11.6	7.5	9.5	11.0
atin America	0.0	4.0	14.0	4.0	0.0	Qu. 1	60.2	11.0	11.0	7.0	0.0	11.0
Real GDP	~1.5.	-2.8	3.6	3.4	4.7	2.4	0.2	1.5	-1.0	1.0	3.3	1.0
Consumer prices	67.1	108.7	133.5	145.1	87.8	130.₽	280.4	533.1	768.0	122.9	65.5	232.1
Merch, exports	-10.6	-0.2	6.3	-5.5	-17.9	13.6	14.1	12.3	9.2	3.8	4.7	2.7
Africa									_		***	
Real GDP	1,1	-1,1	0.7	4.0	1.7	1.3	2.9	3.3	1.9	2.0	2.9	1.4
Consumer prices	13.3	17.8	20.0	13.1	14.7	14.7	18.6	19.5	15.2	17.6	14.6	18.9
Merch, exports	-27.9	15.2	-1.0	-2.5	-17.1	14.2	-2.3	2.8	20.7	2.9	4.0	-1.6
Middle East						-						
Real GDP	2.9	1,1	0.0	1.7	-0.7	0.1	4.7	3.2	-1.5	-3.3	8.5	1.8
Consumer prices	11.4	9.0	11.7	9.4	10.0	17.7	16.8	14.2	13.6	13.3	13.2	12.8
Merch. exports	-22.0	-23.0	-12.1	~7.9	-20.4	13.1	2.1	19.0	13.0	-7.1	13.2	-4.3
Central Europe, & USSR												
Real GDP	2.4	2.7	1,9	0.6	3.3	1.0	1.6	1.0	-7.1	-14.8	-2.4	8.0
Consumer prices	15.4	6.4	5.8	8.3	10.1	12.4	20.6	93.8	83.1	221.2	154.9	26.3
Merch. exports	8.1	3.8	1.0	-1.0	5.7	10.1	5.2	-0.1	-5.3	-10.0	3.1	3.0

F = forecast.

Information contact: Alberto Jerardo, (202) 219-0717.

Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average

Prices received All farm products All farm produ			Annual		1990				991		
Pices received All tarm products All tarm produc		1986	1989	1990	July	Feb	Mar	Apr	May	June R	July P
All tarm products					197	7 = 100					
All crope											
Food grains 138 156 123 116 103 107 110 112 108 196 197 198 199 198 190 128 123 131 118 122 124 122 115 115 117 123 118 128 114 117 119 117 113 117 105 105 105 105 106 112 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 113 117 114 111 115 10											161
Feed grains & hay Feed grains											137
Feed grains											104
Cotton	Feed grains & hay							124			111
Tobacoo											109
Dil-Destring crops											107
Fruit, all											163
Fresh market 1/ Commercial vegetables	Oil-bearing crops										67
Commercial vegetables 140 152 154 134 142 168 169 214 172 172 172 173 174 172 173 174 174 175 174 175	Fruit, ell										364
Fresh market Potatoes & dry beans 124 188 124 123 131 180 183 224 183 Potatoes & dry beans 124 188 124 188 133 138 184 222 188 Uvestock & products 150 160 170 172 188 189 186 185 185 Meat animals 168 174 193 196 198 199 198 190 192 Poultry & eggs 118 137 131 128 122 136 122 119 120 Prices peld Commodities & services, interest, taxes, & wage rates 170 178 184 184 184 — 190 — 175 — 175 — 185 Feed 128 136 128 130 — 125 — 125 — 183 Seed 150 165 165 163 — 183 — 183 — 183 — 183 — 184 Seed 150 165 165 163 — 183 — 183 — 183 — 184 Seed 150 165 165 163 — 183 — 183 — 184 Seed 150 165 165 163 — 183 — 183 — 184 Fertilizer 130 137 131 130 — 138 — 184 Agricultural chemicals 127 139 139 141 — 185 — 185 — 186 Fusis & energy 187 180 204 187 — 185 — 185 Tractors & self-propelied machinery 181 193 202 201 — 210 — 247 — 247 — 247 — 248 Tractors & self-propelied machinery 181 193 202 201 — 210 — 172 — 188 Building & tencing 138 141 144 143 — 144 — 172 — 184 Farm services & cash real estate debt 182 177 178 199 199 199 199 199 199 199 199 199 19	Fresh market 1/	197								449	410
Potatoes & dry beans	Commercial vegetables	140	152	154		142	166				146
Live stock & products 150 160 170 172 186 189 186 185 163 Meat animals 186 174 193 196 196 198 196 192 Dairy Products 120 140 141 144 121 117 116 117 117 Poultry & eggs 118 137 131 128 122 136 122 119 120 Prices pedg Commodities & services Interest, taxes, & wage rates 170 178 184 184 Feed 128 136 128 130 Feed 128 136 128 130	Fresh market	138	144	144	123	131					136
Live stock & producte	Potatoes & dry beans	124	180	191	245	133	138		222		168
Dairy products		150	160	170	172	186					163
Dairy Products			174	193		196	199	198	198		191
Poulity & eggs Prices peld Commodities & services. Interest, taxes, & wage rates ITO IT8 I84 I84 — 190 — 175	Dairy Products		140	141	144	121	117	116	117	117	118
Prices peld Commodities & services. Interest, taxes, & wage rates 170 178 184 184					1.28		138	122	119	120	127
Commodities & services, interest, taxes, & wage rates											
interest, laxes, & wage rates Production items Ford Production items Feed 157 185 171 170 175											
Production items		170	178	184	184			190	_		189
Feeder livestock	Production Items					_				_	173
Feeder livestock							-			_	110
Seed 150							_		_	_	214
Fertilizer 130 137 131 130						_				_	163
Agricultural chemicala 127 139 139 141 — 183 — 183 — 184 Fissis & energy 167 180 204 187 — 198 — 157 — 185 — 157 — 185 — 157 — 185 — 157 — 185 — 157 — 185 —						_	_		_	_	136
Fuel & Renergy							-		_	_	153
Farm & motor supplies									_		196
Autos & trucks 2 215 222 231 233 - 247 - 2	Farm & motor expoles										157
Tractors & self-propelled machinery 181 193 202 201 - 210 - 210 - 210 Other machinery 197 208 216 217 - 227 - 227 - 210 Suiding & tencing 138 141 144 143 - 144 - 214 - 214 - 215 144 145 - 214 - 215 144 145 - 214 144 145 - 214 145 145 145 145 145 145 145 145 145 1											248
Other machinery 197 208 216 217 — 227 — — 8uilding & iencing 138 141 144 143 — 144 — — 172 — — 172 — — 172 — — 172 — — 172 — — 172 — — 172 — — 172 — — 173 — — 173 — — 173 — — 174 — 174 — 175 —	Tractors & self-propelled machinery										210
Suiding & iencing 138											227
Farm services & cash rent 151 161 168 166 - 172 - Int. payable per acre on farm real estate debt 182 176 174 174 - 173 - 162 -											148
Int. payable per acre on farm real estate debt 182 176 174 174 — 173 — 173 — 174 174 — 175 — 175 — 175 — 175 — 175 — 177 177 — 177 — 177 — 177 — 177 — 177 — 177 — 177 — 177 — 177 — 177 — 177 — 177 — 177 — 178 — 177 — 178 —											172
Taxis payable per acre on form real estate 147 152 157 157 — 162 — Wage rates (seasonally adjusted) 177 185 191 192 — 202 — — Production items, interest, taxes, & wage rates 160 167 172 171 — 178 —											173
Wage rates (seasonally adjusted) 177 185 191 192 — 202 — Production items, interest, taxes, & wage rates 180 167 172 171 — 176 — — Batio, prices received to prices paid (%) 2/2 81 83 82 82 78 79 76 80 82 Prices received (1910—14=100) 832 574 684 692 661 681 679 694 706 Prices paid, atc (parity index) (1910—14=100) 1,167 1,220 1,265 1,265 — 1,305 — 1			160								162
Production items, interest, taxes, & wage rates 160 167 172 171 — 176 —											202
Prices received (1910-14=100) 832 574 684 692 681 681 679 694 706 Prices paid, atc (parity index) (1910-14=100) 1.167 1.220 1.265 1.265 — 1,305 — 1											174
Prices received (1910-14=100) 832 574 684 692 681 681 679 694 706 Prices paid, atc (parity index) (1910-14=100) 1.167 1.220 1.265 1.265 — 1.305 — 1	Ratio, Drices received to Drices Daid (%) 2/	81	83	82	82	70	70	78	80	82	80
Prices paid, atc. (parity index.) (1910-14=100) 1.167 1.220 1.265 3.265 — — 1,305 — — 1											688
											1,299
Parity ratio (1910-14=100) (%)2/ 54 55 54 55 52 52											53

If Fresh market for noncitrus; fresh market & processing for citrus. 2/ Ratio of Index of prices received for all farm products to Index of prices paid for commodities & services, interest, taxes, & wage rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January, April, July, & October. R = revised. P = preliminary. — = not available.

information contact: Ann Duncan (202) 219-0313.

Table 5.—Prices Received by Farmers, U.S. Average

		Annual 1	1/	1990				1991		
CROPS	1988	1989	1990	July	Feb	Mar	Арг	May	June R	July P
All wheat (\$/bu.)	3.72	3.72	2.61	2.79	2.43	2.53	2.60	2.64	2.55	2.47
Rice, rough (\$/cwt)	6.83	7.35	6.73	7.05	6.72	7.08	7.46	7.42	7.40	6.93
Corn (\$/bu.)	2.54	2.36	2.30	2.62	2.32	2.39	2.42	2.38	2.31	2.23
Sorghum (\$/cwt)	4.05	3.79	3.75	4.44	3.87	3.93	4.05	4.11	3.89	3.79
All hay, baled (\$/ton)	85.20	86.00	86.00	83.60	80.40	84.50	88 60	84.20	71.60	70.60
Soybeans (\$/bu.)	7.42	5.70	5.75	5.97	5.65	5.76	5.77	5.67	5.55	5.20
Cotton, upland (cts./lb.)	55.6	66.2	67.8	63.9	67.9	68.5	70.8	68.9	67.2	64.9
Potatoes (\$/cwt)	8.02	7.36	6.15	9.97	5.38	5.54	6.83	9.70	8.18	8.11
Lettuce (\$/cwt) 2/	14.70	12.60	11.50	12.40	6.80	10.60	8.93	23.10	9.46	6.71
Tomatoes frash (\$/cwt) 2/	27.10	33.10	27.40	26.80	31.60	44.00	49.30	54.40	56.40	35.30
Onions (\$/cwt)	9.75	11.40	10.50	9.49	10.70	13.00	20.10	22.60	14.60	16.00
Dry edible beans (\$/cwt)	29 90	28 50	18.50	33.20	18 20	18.90	19.60	20.00	17.80	18.90
Apples for fresh use (cts./lb.)	17,4	13.9	20.9	20.3	20.3	20.2	19.9	22.5	24.2	24.8
Pears for fresh use (\$/ton)	358.00	336.00	349.00	410.00	358.00	395.00	390.00	431.00	754.00	·
Oranges, all uses (\$/box) 3/	7.18	7.08	5.99	6.00	5.98	7.41	7.37	7.95	21.35	19.48
Grapefruit, all uses (\$/box) 3/	5.43	4.45	6.21	5 .80	4.50	5.43	5.10	4 91	5.44	4.82
LIVESTOCK								70.00		70.00
Beef cattle (\$/cwt)	66.80	69.67	74.79	73.60	77.00	78.50	78.00	75.90	73.60	73.30
Calves (\$/cwt)	89.85	91.84	96.51	95.90	104.00	107.00	109.00	107.00	106.00	103.00
Hogs (\$/cwt)	42.54	43.24	53.99	60.80	52.10	51.40	50.80	54.10	54.70	53.90
Lambs (\$/cwt)	69.50	67.33	58.01	54.40	45.80	51.10	54.60	57.60	55.30	55.10
All milk, sold to plants (\$/cwt)	12.28	13.56	13.78	14.00	11.70	11.40	11.30	11.40	11.40	11.60
Milk, manuf, grade (\$/cwt)	11.15	12.38	12.33	13.10	10.20	10.10	10,10	10,20	10.40	10.70
Broilers (cts./lb.)	34 0	38.1	32.4	36.3	29.9	30.6	30.4	31.3	31.4	32.6
Eggs (cts./doz.) 4/	53.2	70.0	70.4	57.3	67.7	80.5	65.1	59.5	59.3	65.0
Turkeys (cts./lb.)	36.9	40.0	38.4	39.1	34.4	37.6	. 38.7	38.9	39.7	40.0
Wool (cts./lb.) 5/	138.0	124.0	76.8	78.0	42.1	47.9	58.4	67.4	71.8	56.4

^{1/} Season average price by crop year for crops. Calendar year average of monthly prices for livestock. 2/ Excludes Hawali. 3/ Equivalent on-tree returns. 4/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. 5/ Average local market price, excluding incentive payments. R = revised. P = preliminary. — not available.

Information contact. Ann Duncan (202) 219-0313.

Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

	Annual		1990				1	1991		
	1990	June	Nov	Dec	Jan	Feb	Mar	Apr	May	June
					1982-84±100	D .				
Consumer Price Index, all items	130.7	129.9	133.8	133.8	134.6	134.8	135.0	135.2	135.6	136.0
Consumer Price Index, less food	130.3	129.4	133.7	133.7	134.3	134.6	134.8	134.9	135.4	135.7
All food	132.4	132.0	134.0	134.2	135.8	135.5	135.8	136.7	136.8	137.2
Food away from home	133.4	133.4	135 4	135.7	135.8	136.2	136.5	137.1	137.5	137.9
Food at home	132.3	131.7	133.8	133.8	136.4	135.7	136.0	137.0	136.9	137.4
Meats 1/	128.5	129.6	133.1	133.6	133.5	132.8	133.1	132.7	133.4	133.5
Beef & veal	128.8	129.0	131.9	133.0	132.9	132.6	132.9	133.4	134.1	133.2
Pork	129.8	132.9	137.1	136.8	136.5	135.1	135.2	133.3	134.2	138.1
Poultry Fish Egge Dairy products 2/ Fats & oils 3/ Fresh fruit	132.5	134.0	130.5	129.7	131.3	132.7	131.9	131.1	132.7	131.5
	146.7	143.7	147.0	148.5	151.1	148.7	149.6	148.2	147.0	146.7
	124.1	112.2	128.5	128.7	139.8	125.4	133.1	124.8	112.4	110.2
	126.5	124.9	128.1	126.7	125.2	125.2	124.9	124.5	124.4	123.9
	126.3	125.5	128.8	131.0	132.4	133.1	132.5	133.0	132.6	131.6
	170.9	173.2	164.8	171.2	190.2	190.6	195.9	202.3	204.8	204.4
Processed fruit Fresh vegetables Potatoes Processed vegetables	136,9	140.1	137.0	134.6	134.7	133 2	132.2	132.3	132.1	131.2
	151,1	140.0	149.5	144.0	159.9	152.5	151.1	189.2	167.3	180.5
	162,6	185 8	134.5	133.9	139.8	140.9	139.6	144.4	149.1	165.8
	127,5	127.6	127.5	128:1	127.7	128.4	128.2	128.4	128.7	130.0
Cereals & bakery products	140.0	140.1	141.7	142.4	144.3	144.3	144.3	145.2	145.3	145.7
Sugar & sweets	124.7	124.5	128.1	128.4	127.3	127.1	128.3	128.2	129.2	129.5
Beverages, nonalcoholic	113.5	113.3	114.5	113.1	1157	118 3	114.9	115.5	114.9	113.9
Apparel Apparel, commodities less footwear Footwear Tobacco & smoking products Beverages, alcoholic	122.8	121.8	126.4	123.8	122.0	124 8	127.7	129.1	128.3	125.2
	117.4	117.3	119.6	118.4	117.3	118.4	120.8	121.9	121.7	120.2
	181.5	180.9	187.2	190.5	195.8	196.7	197.6	199.2	199.6	202.9
	129.3	129.3	130.9	130.9	137.3	141.6	142.2	142.6	142.7	143.0

^{1/} Beef, yeal, lamb, pork, & processed meat. 2/ includes butter. 3/ Excludes butter.

Information confact: Ann Duncan (202) 219-0313.

or more information on PINE Compression and OCP visit The Paneriese Office on

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)

		Annual		1990			1	991		
	1988	1989	1990	June	Jan	Feb R	Mar	Apr	May	June
					1982 =	100				
Finished goods 1/	108.0	113.6	119.2	117.8	122.3	121.4	120.6	120.9	121.7	121.0
Consumer foods	112.6	118.7	124.4	124.2	124.8	124.6	125.1	125.4	126.2	125.4
Freeh fruit	113.5	113.2	117.3	117.0	127.4	131.8	132.7	129.5	132.4	137.9
Fresh & dried vegetables	105.5	116.7	118.1	99.9	97.0	98.4	97.2	119.7	148.7	135.7
Dried fruit	99.1 120.2	103.0 122.7	106.7 126.9	105.0 12 7.5	111.1 126.2	111.4 127.3	111.3 126.9	111.3 126.9	111.3 127.3	111.3 126.8
Canned fruit & juice Frozen fruit & juice	129.8	123.9	138.9	146.3	115.1	115.0	112.2	112.5	112.8	112.7
Fresh veg. excl. potatoes	100.4	103.9	107.8	83.7	89.3	87.3	88.4	112.6	157.0	138.0
Canned veg. & juices	108.3	118.6	116.7	118.1	114.8	114.8	115.4	114.4	114.8	112.7
Frozen vegetablea Potatoes	108.6 113.9	115.5 153.6	118.5 157.3	118.0 147.2	118.4 134.0	118.5 137.5	1 t8.8 134.8	118.6 158.4	118.0 138.1	117.7 146.1
Eggs	88.6	119.6	117.6	100.4	140.0	110.5	131.7	113.2	94.6	96.9
Bakery products	126.4	135.4	140.9	140.7	144.9	145.5	146.1	145.6	145.5	146.3
Meata	90.0	104.8	116.9	120.3	117.3	117.0	117.6	117.4	118.0	117.4
Beef & veal Pork	101.4 95.0	108.9 97.7	116.0 119.7	115.7 130.1	118.1 116.3	116.7 117.6	118.1 117.3	118.4	117.5 118.9	114.9 120.8
Processed poultry	111.8	120.4	113.6	116.0	107.8	106.5	108.0	115. 6 108.7	111.6	111.8
Fish	148.7	142.9	148.6	137 5	157.8	157.1	168.0	162.6	165.1	146.4
Dairy products	102.2	110.6	117.2	118.0	112.3	112.0	111.3	111.6	111.6	112.0
Processed fruits & vegetables	113.8	119.9	124.8	126.5	120.0	120.2	120.0	119.5	119.7	118.8
Shortening & cooking oil Soft drinks	118.8 114.3	116.6 177.7	123.2 122.3	128.7 121.1	119.3 127.2	119.9 127.6	121.6 127.0	120.3 127.1	117.2 126.0	115.0 128.5
Consumer finished goods less foods	103.1	108.9	115.3	112.9	119.8	118.2	116.7	117.0	118.1	118.6
Beverages, alcoholic	111.8	115.2	117.2	117.5	124.4	124.2	123.8	124.3	123.2	123.3
Apparel	111.7	114.5	117.4	117.5	118.3	118.8	118.7	119.1	119 2	119.5
Footwear Tobacco products	115.1 171.0	120.8 194.8	125. 6 221.5	125.5 224.1	128.3 237.4	127.1 237.4	128.4 237.7	12 7.9 243.3	128.4 243.4	128.8 249.1
Intermediate materials 2/	107.1	112.0	114.5	113.1	116.4	115.5	114.3	114.0	114.1	114.3
Materials for food manufacturing	106.0	112.7	117.9	121.0	115.4	115.5	116.1	116.3	115.7	115.3
Flour	105.7	114.6	103.6	109.4	91.2	92.6	94.7	96.1	96.2	95.7
Refined augar 3/ Crude vegetable oils	108.9 116.6	118.2 103.1	122.7 11 5 .7	122.8·· 127.7	123.1 110.7	123.2 110.0	122.5 112.3	122.1 109.2	121.1 102.7	121.0 101.8
Crude materials 4/	98.0	103.1	108.9	101.2	112.8	104.1	101.6	101.2	102.2	99.5
Foodstuffs & feedstuffs	106.1	111.2	113.1	115,6	107.2	107.3	110.1	109.0	108.8	107.4
Fruite & vegetables 5/	108.5	114.6	117.2	106.9	109.8	111.4	112.2	123.4	140.8	136.0
Graine	97.9	106.4	97.5	110.4	85.9	88.0	94.0	94.1	92.7	90.2
Livestock Poultry, live	103.3 121.5	106.1 128 8	115.6 118.8	117.8 118.5	112.8 110.4	113. 9 103.1	117.1 110.2	115.8 107.3	115.2 113.9	112.8 112.7
Fibers, plant & snimal	98.4	107.8	117.8	125.9	115.2	126.3	125.6	134.0	139.2	130.8
Fluid milk	89.4	98.8	101.3	103.1	84.4	84.1	83.7	82.1	82.8	84.8
Ollseeds	134.0	123 8	111.8	112.2	109.6	111.2	111.7	109.7	107.5	108.7
Tobacco, leaf Sugar, raw cane	87.2 111.9	93.8 115. 5	98.0 119.2	95.7 119.3	100.2 115.8	100,2 113,1	99.6 113.4	99.6 113.1	99.6 112.9	99.6 113.3
All commodities	106.9	112.2	116.3	114.3	119.0	117.2	116.1	116.0	116.5	1163
Industrial commodities.	106.3	111.6	115.8	113.2	119,3	117.2	115.6	115.5	116.5	116.3
All foods 6/	111.5	117.8	123.2	123.8	122.7	122.5	123.3	123.7	124.5	123.5
Farm products &										
Processed foods & feeds	110.0	115.4	118.6	119.6	117.0	117.1	118.3	118.2	118.5	117.7
Farm products	104.9	110.9	1122	113.6	106.9	108.9	109.6	109.4	110.2	108.9
Processed foods & feeds 6/	112.7	117.8	121.9	122.8	122.1	122.3	122 8	122.7	122.7	122.1
Cereal & bakery products Sugar & confectionery	123.0 114.7	131.1 120.1	134.1 123.1	134.7 123.0	135.3 126.3	136.0 128.4	137.2 127.2	137,2 128.9	137.6 129.0	137.8 128.4
Beverages	114.3	118.4	120.8	120.8	124.3	125.5	125.2	125.4	124.5	124.7

^{1/} Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types & sizes of refined sugar. 4/ Products entering market for the first time that have not been manufactured at that point. 5/ Fresh & dried. 6/ Includes all raw. Intermediate, & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). P = preliminary. R = revised.

Information contact: Ann Duncan (202) 219-0313.

Farm-Retail Price Spreads

Table 8.—Farm-Retail Price Spreads

		Annuel		1990				991		
	1988	1989	1990 P	June	Jan	Feb	Mar	Арг	May	June
Market basket 1/			400.5	400.0				·		
Fletail cost (1982-84=100) Farm value (1982-84=100)	116.5 100.5	124. 6 107.1	133.5 113.3	133.0 113.4	137.9 109.3	137.0 108.2	137.2 108.3	138.5 108.2	138.4 110.6	139.2
Farm-retail apread (1982-84=100)	125.1	134.1	144.4	143.6	153.3	152.5	152.7	154.7	153.3	109.2 155.3
Farm value-retail cost (%)	30.2	30.1	29.7	29.9	27.7	27.7	27.7	27.4	28.0	27.5
Meat products Retail cost (1982-84=100)	112.2	116.7	128.5	129.6	133.5	132 6	133.1	132.7	133.4	133.5
Farm value (1982-84=100)	99.5	103.3	116.6	122.4	114.5	116.0	117.0	117.2	117.0	115.3
Farm-retail epread (1982-84=100) Farm value-retail cost (%)	125.2	130.4	140.6 46.0	136.9 47.8	153.0	150.0	149.7	148.6	150.2	152.2 43.7
Dairy products	44.9	44.8	40.0	97.0	43.4	44.2	44.5	44.7	44.4	43.7
Retail cost (1982-84=100)	108.4	115.6	126.5	124.9	125.2	125.2	124.9	124.5	124.4	123.9
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	90 6 124.7	99.1 130.8	101.9 149.2	100.7 147.2	86.1 161.2	86.7 1 60 .7	85.6 161.2	85.0 1 60 .9	84.9 160.8	85.4 159.4
Farm value-retail cost (%)	40.1	41.1	38.6	38.7	33.0	33.2	32.9	32.8	32.7	33.1
Poultry	400.7	400.7	400.5		404.0	400.7	404.0	404.4		404.5
Retail cost (1982–84≘100) Farm value (1982–84≔100)	120.7 110.2	132.7 117.1	132.5 107.6	134.0 110.9	131.3 100.2	132.7 97.7	131. 9 101.1	131.1 100.1	132.7 103.7	131.5 104.3
Farm-retail epread (1982-84=100)	132.8	150.6	181.1	160.6	167.1	173.0	167.3	166.7	100.1	162.8
Farm value-retail cost (%)	48.9	47.2	43.5	44.3	40.8	39.4	41.0	40.9	41.8	42.5
Eggs Retail cost (1982-84=100)	93.6	118.5	124.1	112.2	139.8	125.4	133.1	124.8	112.4	110.2
Farm value (1982-84=100)	76.7	107.5	108.0	93.1	126.5	103.3	128.7	96.6	85.4	85.2
Farm-retail epread (1982-84=100) Farm value-retail cost (%)	123.9 52.7	138.1 58.3	153.2 55.9	146.5 53.3	163.7 58.1	165.2 52.9	141.0 62.1	175.5 49.7	180.9 48.8	155.0 49.7
Cereal & bakery products								70.1		
Flora value (1982–84 ± 100)	122.1	132.4	140.0	140.1	144.3	144.3	144.3	145.2	145.3	145.7
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	92.7 126.2	101.7 136.7	90.5 146.9	95.1 146.4	79.2 153.4	80.3 1 53 .2	83. 5 152.8	84.9 153.6	85.4 153.7	84.2 1 54 .3
Farm value—retail cost (%)	9.3	9.4	7.9	8.3	6.7	6.8	7.1	7.2	7.2	7.1
Fresh truits Fletail cost (1982-84=100)	145.4	154.7	174.6	178.3	100.2	196.5	197.4	208.5	207.3	209.7
Farm value (1982-84=100)	116.5	108.5	128.0	126.8	198.3 205.5	198.7	165.3	162.3	185.4	216.5
Farm-retail spread (1982-84=100)	158.7	176.0	196.0	202.1	195.0	195.5	212.2	226.9	217.4	208.6
Farm value-retail cost (%) Fresh vegetables	25.3	22.2	23.2	22.5	32.7	31.9	28,4	24.8	28.2	32.6
Retail coets (1982-84=100)	129.3	143.1	151.1	140.0	159.9	152.5	151.1	109.2	167.3	180.5
Farm value (1982-84=100) Farm-retail epread (1982-84=100)	105.8 141.3	123.3 153.2	124 2 165.0	100.4 180.4	112.9 184.1	106.7 176.0	103.5 175.6	131.3 188.7	161.8 170.1	140.1 201.3
Farm value-retail cost (%)	27.8	29 3	27.9	24.3	24.0	23.8	23.2	26.3	32.8	26.3
Processed fruite & vegetables	4455	405.0	400 =	401.0						
Retail cost (1982–84=100) Farm value (1982–84=100)	117.6 136.6	125.0 133.6	132.7 147.2	134. 6 131.8	131.5 121.7	131.0 122.3	130.3 122.9	130. 5 122. 9	130.5 122.9	130.5 117.4
Farm-retall spread (1982-84=100)	111.7	122.3	128.1	135.5	134.6	133.7	132.6	132.9	132.9	134.6
Farm value-retail costs (%) Fate & oile	27.6	25.4	26.4	23.3	22.0	22.2	22.4	22.4	22.4	21.4
Retail cost (1982-84=100)	113.1	121.2	126.3	125.5	132.4	133.1	132.5	133.0	132.6	131.6
Farm value (1982-84=100)	103.0	95.6	107.1	113.8	103.8	103.3	105.8	105.8	100.0	96.4
Farm-retail spread (1982-84=100) Farm value-retail cost (%)	116.8 24.5	130. 6 21.2	133.4 22.8	129.8 24.4	142.9 21.1	144.1 20.9	142.3 21.5	143.0 21.4	144.6 20.3	144.6 19.7
Tana Tanan Tanan ada (70)	2.7.0	21.2	22.0		2.1.1	20.0	21,0	21.7	20.0	10.7
		Annua!		1990			1	991		
D of the c	1988	1989	1990 P	June	Jan	Feb	Mar	Apr	May	June
Beef. Choice Retail price 2/ (cts./lb.)	250.3	265.7	281.0	282.1	294.9	292.5	295.4	297.1	296.1	292.4
Wholesale value 3/ (cts.)	169.4	170.8	189.6	187.0	192.0	189.6	193.4	194.1	190.9	186.1
Net farm value 4/ (cts.)	148.3	157.6	168.4	163.8	170.2	171.1	175.5	175.3	170.0	160.9
Farm-retail spread (cte.) Wholesale-retail 5/ (cte.)	102.0 80.9	108.1 88.9	112.6 91.4	118.3 95.1	124.7 102.3	121.4 102.9	119.9 102.0	121.8 103.0	126.1 105.2	131.5 100.3
_ Farm-wholesale 6/ (cts.)	21.1	19.2	21.2	23.2	22.4	18.5	17.9	18.8	20.9	25.2
Farm value-retait price (%) Pork	59	59	60	58	58	58	59	59	57	55
Retail price 2/ (cts./lb.)	183.4	182.9	212 6	218.1	216.1	215.5	213.9	211.7	213.3	214.0
Wholesale value 3/ (cts.)	101.0	99.2	118.3	125.6	109.7	110.1	110.8	109.7	115.5	110.0
Net farm value 4/ (cts.) Farm-retail spread (cts.)	69.4 114.0	70.4 112.5	87.2 125.4	96.9	81.4	83.1	82.7	81.4	87.4	87.7
Wholesale-retail 5/ (cts.)	82.4	83.7	94.3	121.2 92.5	134.7 108.4	132 4 105.4	131.2 103.1	130.3 102.0	125.0 97.8	126.9 98.6
_ Ferm-wholesale 6/ (cts.)	31.6	28.8	31.1	28.7	28.3	27.0	28.1	28.3	28.1	28.3
Farm value-retail price (%)	38	38	41	44	38	39	39	38	41	41

^{1/} Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit, less allowance for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as grading & packing for some commodities. The larm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing. 2/ Weighted average price of retail cuts from pork & choice yield grade 3 beef. Prices from BLS. 3/ Value of wholesale (boxed beef) & wholesale cuts (pork) equivalent to 1 lb. of retail cuts adjusted for transportation costs & byproduct values. 4/ Market value to producer for live animal equivalent to 1 lb. of retail cuts minus value of byproducts. 5/ Charges for retailing & other marketing services such as wholesaling, and in-city transportation. 6/ Charges for livestock marketing, processing, & transportation. P = preliminary.

Information contacts: Denie Dunham (202) 219-0870, Larry Duewer (202) 219-0712.

Table 9.—Price Indexes of Food Marketing Costs

		Annual			-1	990			1991
	1988	1989	1990		- 11	ŧII	IV	I	II P
					1967=100*				
Labor—hourly earnings									
& benefits	370.1	379.5	392.9	388.8	392.0	392.5	398.3	400.9	404.9
Processing	382.9	390.3	404.8	400.7	404.1	404.4	409.7	412.8	416.9
Wholesaling	394 1	409.1	421.5	417.0	419.5	423.2	428.5	432.0	435.7
Retailing	347.7	355,6	368.8	364.3	367.7	367.0	368.4	375.5	379.2
Packaging & containers	350.7	364.6	367.6	367.1	367.3	366.5	369.4	375.0	372 0
Paperboard boxes & containers	308.1	323.7	323.9	326.7	324.1	322.3	322.5	322.4	318.4
Metal cans	442.3	443.2	455.0	450.9	456.3	456.3	456.3	488.1	469.2
Paper bags & related products	372.2	409.2	413.0	411.5	408.9	410.2	421.3	423.1	419.5
Plastic films & bottles	305.7	313.2	307.1	308.5	306.9	303.9	309.2	318.0	311.6
Glass containers	398.9	409.9	427.3	422.2	428.0	428.9	429.8	445.4	445.9
Metal foil	266.9	274.4	258.4	250.0	257.6	281.4	284.7	263.0	257.5
Transportation envices	403.5	404.9	411.3	410.9	410.5	408.2	415.7	420.7	423.2
Advertising	384 7	409.1	432.9	425.3	429.8	435.1	441.7	453.5	458.0
Fuel & power	578.2	619.4	671.4	652.6	615.0	668.0	750.1	679.5	636.8
Electric	453.3	468.9	477.7	464.2	470.3	496.0	480.1	490.8	505.3
Petroleum	502.0	592.1	744.8	693.3	582.6	713.4	989.8	739.1	599.5
Natural gas	1,042.1	1.070.9	1.071.0	1,092.3	1.059 0	1.056.6	1,076.2	1,089.8	1.056.0
Communications, water & sewage	241.3	247.3	253.1	251.5	253.0	253.0	255.0	258.4	260.3
Rent	272.6	277.1	273.0	272.2	274.6	274.9	270.3	271.8	271.6
Maintenance & repair	395.9	410.7	428.7	421.1	425.2	428.2	432.4	435 7	441.1
Business services	364.6	388.3	405.8	399.0	403.3	407,5	412.7	421.6	425.6
Supplies	305.6	321.4	321.1	318.7	318.9	320.1	328.6	325.5	319.5
Property taxes & Insurance	419.9	439 7	462.2	452.7	458.5	468.3	471.4	474.0	477.4
Interest, short-term	150.3	172.1	155.5	158.0	160.3	153.2	150.3	129.1	1185
Total marketing cost Index	372.4	384.8	397.5	393.4	393.9	397.0	405.5	405.9	405.8

^{*} Indexes measure changes in employee earnings & benefits & in prices of supplies & services used in processing, wholesaling, & retailing U.S. farm foods purchased for at-home consumption. P = pretiminary.

Information contact: Denis Dunham (202) 219-0870.

Livestock & Products

Table 10.—U.S. Meat Supply & Use

							Cons	umption	D.1
	Beg. stocks	Produc- tion 1/	Îmports	Totai supply	Exports	Ending stocks	Total	Per capita 2/	Primary market price 3/
			Mil	lion pounds 4/				Pounds	
Beef 1988 1989 1990 1991 F	386 422 335 397	23,589 23,087 22,743 22,986	2,380 2,179 2,358 2,280	26,355 25,688 25,434 25,663	681 1,023 1,006 1,150	422 335 397 315	25,252 24,330 24,031 24,198	72.6 69.3 67.8 67.6	71,1 9 73.86 78.56 75–77
Pork 1988 1989 1990 1991 F	360 437 313 296	15,884 15,813 15, 354 18,021	1,135 896 898 878	17,180 17,146 16,565 17,195	195 262 239 254	437 313 296 375	16.548 16,571 16,030 16,566	52.5 52.0 49.8 50.9	43.39 44.03 54.45 49-51
Veal 5/ 1988 1989 1990 1991 F	4 5 4 8	398 365 327 314	27 0 0	427 380 331 320	10 0 0	5.4 6 4	412 356 325 318	1.4 1.2 1.1 1.0	89.85 91.84 96.51 102-104
Lamb & mutton 1988 1989 1990 1991 F	8 6 8	335 347 363 365	51 63 59 60	394 418 430 433	1 2 3 2	6 8 8	387 406 419 422	1.4 1.5 1.5	68.26 67.32 55.54 52-54
Total red meat 1988 1989 1990 1991 F	758 870 660 707	40,004 39,602 38,787 39,686	3.594 3,138 3,313 3,218	44,356 43,810 42,760 43,811	887 1,287 1,248 1,408	870 660 707 703	42.599 41,663 40.805 41,502	127.9 124.0 120.1 121.0	
Broilers 1988 1989 1990 1991 F	25 36 38 26	16,187 17,424 18,660 19,733	0	16.212 17,460 18.698 19,759	765 814 1,143 1,105	38 38 26 35	15,410, 16,608 17,529 18,620	82.9 67.1 70.1 73.8	58.3 58.0 54.8 50-52
Mature chicken 1988 1989 1990 1991 F	188 157 189 224	633 568 588 553	0 0 0	821 725 777 777	26 24 25 25	157 189 224 240	639 511 528 513	2.6 2.1 2.1 2.0	Ξ
Turkeys 1988 1989 1990 1991 F	266 250 236 306	3.960 4,285 4,734 4,817	0 0 0	4,226 4,535 4,970 5,123	51 41 54 67	250 236 30 0 260	3,926 4,259 4,610 4,796	18.0 17.2 18.4 19.0	61.2 66.7 63.2 62-64
Total poultry 1988 1989 1990 1991 F	479 442 463 557	20,780 22,278 23,982 25,103	0 0 0	21,259 22,720 24,445 25,660	842 878 1,222 1,196	442 463 557 535	19,975 21,379 22,666 23,929	81.5 86.4 90.7 94.8	Ξ
Red meat & poultry 1988 1989 1990 1991 F	1,237 1,312 1,123 1,264	60,784 61,880 62,769 64,789	3,594 3,138 3,313 3,218	65.515 66,330 67,205 69,271	1,729 2,165 2,470 2,602	1,312 1,123 1,284 1,238	62.573 63,042 63,471 65,431	209.4 210.4 210.8 215.8	=

^{1/} Total including farm production for red meats & federally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcass-to-retail conversion factor was 70.5) 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef: Medium # 1, Nebraeka Direct 1,100–1,300 lb.; pork: barrows & gilts, 7 markets; veal: farm price of calves: lamb & mutton: Choice slaughter lambs, San Angelo: broilers: wholesale 12-city average; turkeys: wholesale NY 8-16 lb. young hens. # Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning 1969 veal trade no longer reported separately. F = forecast. — = not available.

Information contacts: Polly Cochran, or Maxine Davis (202) 219-0767.

Table 11.—U.S. Egg*Supply & Use

		Co.				Hatch-		Consur	πption	
	Beg. stocks	Pro- duc- tion	im- ports	Total supply	Ex- ports	Ing U80	Ending stocks	Total	Per capita	Wholesale price*
			М	illion dozen					No.	Cte./doz.
1985 1987 1988 1989 1990 1991 F	10.7 10.4 14.4 15.2 10.7 11.6	5,766.3 5,868.2 5,784.2 5,597.8 5,659.9 5,714.3	13.7 5.6 5.3 25.2 9.1 1.7	5,790.7 5,884.2 5,803.9 5,638.2 5,679.6 5,727.7	101.6 111.2 141.8 91.6 100.5 129.8	566.8 599.1 605.9 642.9 675.8 707.6	10.4 14.4 15.2 10.7 11.6 12.0	5,111.9 5,159.5 5,041.0 4,893.0 4,891.7 4,878.3	254.9 254.9 246.8 237.3 234.8 231.9	71.1 61.6 62.1 81.9 82.2 75-81

^{*} Cartoned grade A large eggs, New York. F = forecast.

Information contact. Maxine Davis (202) 219-0767.

Table 12.-U.S. Milk Supply & Use

			Comr	mercial		Total		Comm	ercial	All	ccc	net removals
	Produc- tion	Farm use	Farm market- logs	Beg. stock	lm∽ ports	olei enbbly	CCC net re- movals	Ending stocks	Dieap- pear- ance	milk price 1/	Skim soilds basis	Total solids besis 2/
				E	Billion pour	rds (milkfat bas	in)			\$/owt	Billion	pounde
1984 1985 1986 1987	135.4 143.0 143.1 142.7	2.9 2.5 2.4 2.3	132.4 140.6 140.7 140.5	5.1 4.8 4.5 4.1	2.7 2.8 2.7 2.5	140 2 148.2 147.9 147.1	8.7 13.3 10.8 6.8	4.8 4.6 4.1 4.0 4.3	126.7 130.4 133.0 135.7 136.5	13.46 12.76 12.51 12.64 12.26	12.4 17.2 14.3 9.3 6.6	10.9 15.6 12.9 8.3 6.9
1986 1989 1990 1991 F	145.2 144.2 148.3 146.8	2.2 2.1 2.0 2.0	142.9 142.2 146.3 140.8	4.6 4.3 4.1 5.1	2.4 2.5 2.7 2.5	149.0 149.0 153.1 154.4	9.1 9.4 9.0 10.2	4.1 6.1 4.6	135.5 139.0 139.6	13.56 13.73 12.00	0.4 1.6 4.0	4.0 4.6 6.5

^{1/} Delivered to plants & desiens; does not reflect deductions. 2/ Arbitrarily weighted average of milkfat basis (40 percent) & skim solids basis (80 percent). F = forecast.

Information contact; Jim Miller (202) 219-0770.

Table 13.-Poultry & Eggs_

		Annual		1990				1991		
	1986	1989	1990	June	Jan	Feb	Mar	Apr	May	June
Federally inspected staughter,										
certified (mil. lb.)	16,124.4	17,334.2	18.553.0	1,535.7	1,687.6	1,488.1	1.516.4	1.692.0	1,739.1	1,564.5
Wholesale price,	56.3	59.0	54.8	58.4	51.7	50.6	51.4	52.0	52.0	52.7
12-city (cté,/lb.) Price of grower feed (\$/ton)	219	237	218.3	220	213	214	211	2.09	209	209
Broiler-feed price ratio 1/	3.1	3.0	3.0	3.1	2.9	2.8	2.9	2.9	3.0	3
Stocks beginning of period (mil. lb.)	24.8	35.9	38.3	30.9	26.1	22.7	27.3	30.5	32.8	36.3
Broiler-type chicks hatched (mil.) 2/	5,802.4	5.946.9	6.314.6	542 2	543.9	497.1	567.1	554.0	583.3	566.7
Turkeys										
Federally inspected elaughter. certified (mil. lb.)	3,923,4	4.174.8	4,560.9	369.2	368.7	322.0	330.1	377.1	396.0	368.0
Wholesale price. Eastern U.S.,	3,823.4	4.174.0	4,000.0	200.5	300.7	44.4.4	000.1	01111	000.0	505.0
8-16 lb, young here (cte./lb.)	61.2	66.7	63.2	62.9	53.5	55.8	59.1	60.3	62.3	62.7
Price of turkey grower feed (\$/ton)	243	251	238.4	242	234	237	235	237	236	234
Turkey-reed price ratio 1/	3.0	3.2	3 2	3.2	2.0	2.9	3 2	3.1	3.3	3.4 451.3
Stocks beginning of period (mil. lb.)	266.2	249.7	235.9	405.6	306.4 25.9	301.1 25.3	339.1 25.8	365.9 28.6	406.0 29.8	28.2
Poulte placed in U.S. (mil.)	261.4	290.7	304.9	29.3	20.0	29.3	20.0	28.0	20.0	20.2
Eggs	00.440	07.494	67.010		£ 007	F 444	6 000	E 004	F 701	E 800
Farm production (mil.) Average number of layers (mil.)	69,410 277	67,174 289	67,919 270	5.526 267	5,837 273	5.284	5,889 272	5,821 271	5.761 271	5.620 271
Rate of lay (eggs per layer	2//	200	270	201	2/3	2/4	212	2/1	2/1	271
on (arms)	251	250	251.7	20.7	21.3	19.3	21.8	20.7	21.3	20.7
Cartoned Price, New York, grade A						-				
large (cts./doz.) 3/	62.1	81.9	82.2	73.6	87.5 198	78.3 199	91.9 199	74.9 1 195	67.0 195	68.8 194
Price of laying feed (\$/ton) Egg-feed price ratio 1/	203 5.3	209 6.7	202 6.9	195	8.0	6.8	8.1	6.7	6.1	6.1
	9.3	0.7	0.0	0.0	0.0	0.0	0.1	4.1		***
Stocks, first of month	4.00	0.00				0.54	0.03	0.40	0.36	0.45
Shell (mil. doz.) Frozen (mil. doz.)	1.29 13.1	0.27 14.9	0.36 10.3	0.63 13.2	0.45 11.2	0.51 11.2	0.27 10.6	0.42 10.7	9.8	10.3
Replacement chicks hatched (mil.)	366	383	399.0	34.5	33.1	34.8	37.0	39.5	38.9	35.5

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 lb. of broller or turkey liveweight. 2/ Piscement of broller chicks is currently reported for 15 States only; henceforth, hatch of broller-type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact: Maxine Dávie (202) 219-0767.

Table 14.—Dalry

		Annual		1990				1991		
AAU	1988	1989	1990	June	Jan	Feb	Mar	Apr	May	June
Milk prices, Minnesota-Wisconsin, 3.5% fat (\$/cwt) 1/ Wholesale prices	11.03	12.37	12.21	13.28	10.16	10.04	10.02	10.04	10 23	10.58
Butter, grade A Chl. (cts./lb.) Am. cheese, Wis.	132.5	127.9	102.1	98.4	97.3	97.3	97.3	97.3	97.2	98.1
assembly pt. (cts./lb.) Nonfat dry mlik (cts./lb.) 2/	123.8 79.7	138.8 105. 5	136.7 100.6	149.5 129.2	111.4 85.2	111.5 85.1	111,5 85.1	111.7 85.4	115.0 86.1	121.4 88 9
USDA net removals Total milk equiv. (mit. lb.) 3/ Butter (mit. lb.) Am. chaese (mil. lb.)	9,070.1 312.6 238.1	9,357.0 413.4 37.4	8,951.2 400.3 21.5	674.7 30.9 0	1.843.5 77.5 15.5	1.659.8 68.1 18.0	1.264.3 52.0 13.0	1.685.4 70.4 15.1	1,442.5 62.4 8.2	570.1 23.1 7.1
Nonfat dry milk (mil. lb.)	267 5	0	117.8	0	55.4	44.2	42 5	48.4	28.8	4.7
Milk Milk prod. 21 States (mil. lb.) Milk per cow (lb.) Number of milk cows (1,000) U.5. milk production (mil. lb.) Stock, beginning	123,518 14.291 8,643 145.152	122,509 14.369 8,528 144,239	125,714 14,768 8,513 148,284	10.719 1.262 8.495 6/ 12,627	10.663 1.253 8.510 6/ 12.601	9,948 1,172 8,487 6/ 11.756	11.097 1,311 8,464 6/ 13.113	10,908 1,294 8,426 6/ 12,872	11.228 1,334 6,418 6/ 13,252	10.679 1,269 8,413 6/ 12,604
Total (mil. ib.) Commercial (mil. ib.) Government (mil. ib.) Importe, total (mil. ib.) 3/ Commercial disappearance	7.473 4,598 2.877 2.394	8.379 4.256 4,122 2,499	9,038 4,120 4,916 2,690	13,071 5,412 7,858 258	13.359 5,146 8.213 164	14,758 5,833 8,925 142	15.730 5,802 9,928 155	16,765 5,969 10,796 174	18,402 6,289 12,113 238	18,942 6.212 12,731
(mil. lb.)	136,674	135,439	138.947	12.002	10,060	10,111	11,663	10,873	11.950	_
Butter Production (mil. ib.) Stocks, beginning (mil. ib.) Commercial disappearance (mil. ib.)	1,207.5 143.2 909.8	1,295.4 214.7 876.0	1.302.2 256.2 915.2	96.7 399.6 74.7	142.1 416.1 37.8	126,3 470,8 51,6	131.6 524.8 85.1	133.7 555 9 56.3	126.0 616.8 68.0	98.3 647.5
American cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	2,758.6 370.4 2,570.0	2.674.1 293.0 2.683.1	2,890.8 23 6 .2 2,781.0	250.6 323.5 240.1	247.1 347.4 230.3	222.4 361.5 222.0	250.0 343.5 206.7	238.9 381.4 207.4	247.5 403.6 241.8	235.2 412.5
Other cheese Production (mil. ib.) Stocks, beginning (mil. ib.) Commercial disappearance (mil. ib.)	2,815.4 89.7 3,034.5	2,941.3 104.7 3,208.9	3,170 4 93.2 3,429.8	272.2 119.5 289.1	254.8 110.6 266.0	235.6 113.0 254.7	271.3 107.5 288.3	263.8 106.2 282.2	268.5 106.9 296.5	270.2 103.8
Nonfat dry milk Production (mil. lb.) Stock®, beginning (mil. lb.) Commercial disappearance (mil. lb.)	979.7 177.2 734.3	874 7 53.1 873.0	876.6 49.5 695.0	87.7 70.8 65.4	82.6 161.9 35.8	77.9 188.4 44.4	87.6 207.1 51.8	95.1 255.8 51.3	101.4 287.0 82.7	78.6 328.8
Production (mil. gal.) 4/	1,248.0	1.214.0	1.162.9	118.0	78,9	82 3	99.3	103 5	114.7	124.9
		Annual		1989			1990			1991
	1988	1989	1990	IV	- 7	I†	III	ĮV.	- IP	(I P
Milk production (mit. lb.) Milk per cow (lb.) No. of milk cows (1,000) Milk-feed price ratio 5/ Returns over concentrate 5/ costs (\$\forall cost (\$\forall cost (\$\forall cost)\$)	145.152 14.145 10,262 1.58 8.99	144.239 14,244 10,128 1.65 10.18	148.284 14,642 10,127 1.72 10.39	34,939 3,451 10,126 1 92 12.16	38.740 3.627 10.128 1.83 11.13	38.626 3.820 10,111 1.69 10.00	38,632 3,820 10,119 1,74 10,50	38.285 3.575 10.151 1.57 9.03	37,470 3,708 10,104 1,49 8,30	38.728 3,862 10,027 1,47 8,10

^{1/} Manufacturing grade milk. 2/ Prices paid f.o.b. Central States production area. 3/ Milk equivalent, fat basis. 4/ Hard Ice cream, ice milk, & hard sherbet. 5/ Based on average milk price after adjustment for price support deductions. 6/ Estimated. P = preliminary. — = not available.

Table 15.—Wool

		Annual		_	1990		1991		
	1988	1989	1990	1	IJ	111	IV	1	II
U.S. wool price, (cts./lb.) 1/	438	370	258	289	272	238	227	197	200
Imported wool price, (cts./lb.) 2/	372	354	287	327	312	281	270	235	199
U.S. mill consumption, ecoured									
Apparel wool (1,000 lb.)	117,069	120,534	120,622	31.511	31,728	26,868	30,497	32,338	<u> </u>
Carpet wool (1,000 lb.)	15,633	14,122	12,124	3,911	2,950	3,125	2,138	3.088	

^{1/} Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60–22.04 microns) staple 2–3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10.0 cents. — = not available.

Information contact: LaVerne T. Williams (202) 219-0770.

Information contact: John Lawler (202) 219-0840.

Table 16.—Meat Animals

		Annual		1990			1	991		
	1988	1989	1990	June	Jan	Feb	Mar	Apr	May	'June
Cattle on leed (7 States)										
Number on feed (1,000 head) 1/	8,411	8,045	8,378	7,867	9.137	9.103	8,974	9,056	6.675	8,585
Placed on feed (1,000 head) Marketings (1,000 head)	20,654	20,834	21,215	1,335	1,716	1,425	1,718 1,499	1,402 1,655	1,717 1,666	1,077
Marketings (1,000 head) Other disappearance (1,000 head)	19,918 1,202	1,079	19,238	1.819 73	1,632 119	1.441 113	137	128	141	114
Beaf steer-corn price ratio,										
Omaha 2/	31.5	30.3	32.8	27.0	35.3	34.3	34.0	32.8	32.7	32.0
Hog-com price ratio, Omaha 2/	19.6	18.4	23.1	22.4	23.0	22.8	21.8	20,8	22 9	23.6
Market prices (\$/cwt) Slaughter cattle										
Choice steers, Omaha 1,000-1,100 lb.	69.54	72.52	77.40	75.83	78.95	78.63	80,75	80.77	78.28	74.63
Choice steers, Neb. Direct, 1,100-1,300 lb.	71.19	73,86	78.56	73.68	79.35	79.60	81.23	81.09	78.20	74.39
Boning utility cows, Sloux Falls	47.21	48.98	53.60	55.31	49.41	51.49	52.08	52.13	63.40	54.19
Feeder caltie										
Medium no. 1, Oldahoma City 500-700 lb.	84.72	86.68	92.15	94.74	94.21	95.53	96.38	98.52	97.08	97.30
Slaughter hogs										
Barrows & gilts, 7-markets Feeder pigs	43.39	44.03	54.45	80.75	51.00	51.93	51,57	51.01	54.47	64.55
S. Mo. 40-50 lb. (per head)	38.06	33.63	51.46	47.32	48.50	57.47	63.63	60.97	62.98	42.78
Slaughter sheep & lambs									- TA	
Lambs, Choice, San Angelo	68.26 38.68	67.32 38.58	55.54 35.21	53.56 32.38	47.63 31,94	45.81 30.38	54.88 34 88	55.50 35.50	57.70 29.90	55,7 5 33,38
Ewes, Good, San Angelo Feeder lambs	30.00	36.56	33.61	34.30	25 1 (104)	30.36	34 64	33.00	20.00	
Choice, San Angelo	90.89	79.85	62.95	56.50	50.83	49.06	59.25	58.63	54.98	49.09
Wholesale meat prices, Midwest	440.50	444.70	100.01	104.50			405.45	105.00	123.76	120.61
Boxed beef cut-out value Canner & cutter cow beef	110.50 87.77	114.78 94.43	123.21	121.53 101.51	125.04 95.94	123.24 100.50	125.45 103.43	125.96 101.93	103.31	105.15
Pork Joins, 14–18 lb. 3/	97.49	101.09	117.52	125.52	107 67	109.13	110.33	104.81	120.48	123.49
Pork bellies, 12-14 lb.	41.25	34.14	53.80	65,15	64,11	57.20	58.52	57.25	57.50	56.48 NQ
Hams, skinned, 14-17 lb.	71.03	69.39	8 7. 70	NQ	73.00	83.17	81.42	75.00	80.00	
All fresh beef retail price 4/	224.81	238.97	254.99	254.05	261.30	281.57	261.39	265.15	265.87	264.50
Commercial slaughter (1,000 head)*	05.070	00.012		0.000	0.004	0.100	2,510	2,741	0.054	2,707
Cattle Steers	35,07 9 1 7 ,34 6	33,917 16,539	33.242 18.587	2.036 1.510	2.881 1,416	2,4 69 1,220	1,249	1,439	2,851 1,491	1,444
Haifer®	10.753	10,408	10,090	914	858	741	741	790	850	812
Cows	6.338	0,316	5,920	448	557	461	472	480	454	400
Bulle & stage	2,506	657	644 1,789	55 135	50 154	47 125	48 123	52 109	56 105	51 93
Calvet Sheep & lambs	5.293	2.172 5.485	5,654	440	508	461	565	457	461	408
Hoga	87.795	68,691	85.135	6,321	7,652	8,837	7.218	7,495	7,130	8,296
Commercial production (mil. lb.)		40.00			4 000	4.604	4.204	1.872	1,948	1.874
Beef Veat	23,424 387	22,974 344	22,634 31 8	1.981	1,988	1,894	1,721 25	23	23	20
Lamb & mutton	329	341	357	27	33	30	38	29	30	25
Pork	15.623	1 5 ,759	15.299	1,142	1,396	2,954	1,301	1,361	1.291	1,140
		Annual			1	990			1991	
	1988	1989	1990	1	11	111	IV	1	18	10
Cattle on feed (13 States)								10.077	40.000	0.400
Number on feed (1,000 head) 1/ Placed on feed (1,000 head)	10.114 24.423	9.688 24,469	9,943 24,948	9.943 6.083	10,083 5,086	8.761	9,092 7,486	10,977 5,692	10,889 4,890	9,426
Marketings (1,000 head)	23,459	22.840	22,561	5,578	5,988	8,333 5;741	5,254	5,338		6/ 8,044
Other disappearance (1,000 head)	1,390	1,274	1,393	385	400	261	347	462	464	_
Hogs & Pigs (10 States) 5/	40 075	49.040	10 000	40.000	40.100	49 620	44 120	42 000	41,990	44,520
Inventory (1,000 head) 1/ Breeding (1,000 head) 1/	42,675 5,4 35	43,210 5.335	42.200 5,27 5	42,200 5,275	40,190 5.245	42,630 5,405	44,120 5,300	42,900 5,257	5,450	5,700
Market (1,000 head) 1/	37,240	37.875	38.925	36,925	34,945	37,225	38,820	37,643	36,540	38,820
Farrowings (1.000 head)	9,370	9,203	8,955	2.028	2.458	2,236	2.238 17,459	2,129	2,577	2,413
Pig crop (1,000 head)	72,268	71.807	70.549	15,870	19,576	17,684	17,408	16,770	20.555	

^{1/} Beginning of period. 2/ Bushele of corn equal in value to 100 pounds live weight. 3/ Prior to 1984, 8-14 lb.; 1984 & 1985, 14-17 lb; beginning 1986, 14-18 lb. 4/ New series estimating the composite price of all beef grades & ground beef sold by retalf stores. This new series is in addition to, but does not replace, the series for the retail price of Choice beef that appears in table 8. 5/ Quarters are Dec. of preceding year-Feb. (I), Mar.-May (II), June-Aug. (III), & Sept-Nov. (IV). 6/ Intentions.

*Classes estimated, May not add to NASS totals due to rounding. --- not available. NQ = no quotation.

Information contact: Polly Cochran (202) 219-0767.

Crops & Products

Table 17.—Supply & Utilization 1,2

		Area					Feed	Other				
	Set aside 3/	Planted	Harvest- ted	Yield	Produc- tion	Total eupply 4/	and reald- ual	domes- tlo	Ex- ports	Total use	Ending etocks	Farm price 5/
		Mil. acres		Bul/acre				Mil. bu.				\$/bu.
/hest 1985/87 1987/88 1986/89 1986/90* 1990/91* 1991/92*	21.0 23.9 22.6 9.6 7.5 15.2	72.0 85 8 85 6 76.6 77.3 70.0	.80.7 55.9 63.2 62.2 69.4 58.1	34.4 37.7 34.1 32.7 38.5 35.0	2.091 2.108 1.812 2.037 2.739 2.033	4,017 3,945 3,096 2,762 3,311 2,939	401 280 140 139 492 350	796 806 829 853 886 916	999 1,598 1,419 1,233 1,068 1,100	2.198 2.684 2.394 2.225 2.446 2.365	1,871 1,261 702 536 866 574	2.42 2.57 3.77 3.72 2.61 2.60–3.00
	:	Mil. acree		Lb_/acre			N.	Alt. owt (rough o	equiv.)			\$/cwt
lice 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	1.48 1.57 1.09 1.18 1.02 0.58	2.38 2.36 2.93 2.73 2.89 2.87	2.36 2.33 2.90 2.69 2.81 2.83	6,851 6,655 6,614 6,749 5,507 6,644	133.4 129.6 159.9 154.5 154.9 157.0	213.3 184.0 195.0 185.4 188.0 188.7	=	6/ 77.7 6/ 80.4 6/ 82.3 6/ 82.4 6/ 86.8 6/ 93.0	84.2 72.2 85.9 76.8 71.0 70.0	161.0 152.6 168.2 159.2 159.8 163.0	51.4 31.4 26.7 26.3 26.2 25.7	3.76 7.27 6.83 7.35 6.60-7.00 6.00-8.00
Corn	-	Mil. acres		BuJacre				Mil. bu.				\$/bu.
1986/87 1987/88 1988/89 1988/90 " 1990/91 " 1991/92"	14.3 23.1 20.5 10.8 10.7 7.3	70.8 66.2 87.7 72.2 74.2 75.9	68.9 59.6 58.3 64.7 67.0 68.8	119.4 119.8 84.6 116.3 118.5 107.8	8,226 7,131 4,929 7,525 7,933 7,418	12.267 12.016 9.191 9.458 9.280 8,950	4.701 4.812 3.981 4.455 4.700 4.725	1,192 1,229 1,251 1,290 1,325 1,350	1.492 1,716 2.028 2.369 1.726 1,650	7.385 7.757 7.260 8.113 7.750 7.725	4,882 4,259 1,930 1,344 1,530 1,225	1.50 1.94 2.54 2.35 2.30 2.30–2.70
	1	Mil. acres		Bul/acre				Mil. bu.				\$/bu.
orghum 1988/87 1987/88 1986/89 1989/90* 1990/91* 1991/92*	2.9 4.1 3.9 3.3 3.3 2.3	15.3 11.8 10.3 12.6 10.5 11.0	13.9 10.5 9.0 11.1 9.1 9.7	67.7 69.4 63.8 65.4 62.9 67.9	939 731 577 615 571 565	1,490 1,474 1,239 1,055 791 722	536 555 466 517 400 400	12 25 22 15 14	198 232 310 304 220 190	748 612 800 835 634 605	743 663 440 220 157 117	1.37 1.70 2 27 2.10 2.10 2.15–2 50
a day		Mil. acres		Bu Jacre				MII. bu.				\$/bu.
arley 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	2.0 2.9 2.8 2.3 2.9 2.1	13.0 10.9 9.8 9.1 8.2 8.9	12.0 10.0 7.5 8.3 7.5 8.4	50.8 52.4 38.0 48.6 55.9 55.8	609 521 290 404 419 470	942 859 622 614 595 621	298 253 166 190 195 215	174 174 180 179 184 175	134 121 79 84 80 85	608 548 425 453 459 475	336 321 196 161 136 146	1.81 1.81 2.80 2.42 2.14 1.90–2 30
luba	1	Mil. acres		Bu /acre				MII. bu.				\$/bu.
eta 1986/87 1987/88 1988/89 1989/90" 1990/91" 1991/92"	0.6 0.8 0.3 0.4 0.2 0.5	14.7 17.9 13.0 12.1 10.4 8.6	6.8 6.9 5.6 6.9 5.0	56.3 54.3 39.3 54.3 60.1 57.2	385 374 218 374 357 260	601 552 393 538 585 496	385 356 194 265 293 260	83 81 100 115 120 125	1 1 1 1 1	468 440 294 381 414 388	133 112 98 157 171 110	1.21 1.56 2.61 1.49 1.14 1.10-1.40
	1	Mil. acres		Bu Jacre				Mil. bu.				\$/bu.
oybeane 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	0 0 0	60.4 58.2 58.8 60.8 57.8 59.8	58.3 57.2 57.4 59.6 56.5 58.7	33.3 33.9 27.0 32.3 34.0 31.8	1,943 1,938 1,549 1,924 1,922 1,869	2.479 2.375 1.855 2.109 2.163 2,199	7/ 108 7/ 97 7/ 88 7/ 101 7/ 98 7/ 94	1,179 1,174 1,058 1,146 1,180 1,195	757 802 527 623 560 610	"2,042 2,073 1,673 1,870 1,838 1,899	436 302 182 239 325 300	4.78 5.88 7.42 5.69 5.75 4.85–6.89
a does of								Mil. Ibs.				8/ Cts./lb.
oybeen oil 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*		=			12,783 12,974 11,737 13,004 13,185 13,325	13.745 14.895 13.967 14.741 14,505 15,140	6-10	10,833 10,930 10,591 12,083 12,000 12,100	1.187 1.873 1.661 1.353 700 900	12,020 12,803 12,252 13,436 12,700 13,000	1,725 2,092 1,715 1,305 1,805 2,140	15.40 22.67 21.10 22.30 21.00 18.5-20.5
oybean meal								1.000 tone				9/ \$/ton
1986/87 1987/88 1988/89 1988/90* 1990/91* 1990/92*		=======================================			27,758 28,060 24,943 27,719 27,967 28,395	27.970 28,300 25,100 27,900 28,300 28,800	=	20,367 21,293 19,657 22,558 22,700 23,000	7,343 6,854 5,270 5,024 6,200 5,500	27.730 28.147 24.927 27.582 27,900 28,600	240 153 173 318 400 300	183 222 233 174 170 180-200

Table 17.—Supply & Utilization, continued

		Arma					Feed	Other				
	Set Aeide 3/	Planted	Harves- ted	Yleld	Produc- tion	Total supply	reaid— Leaid—	domes- tic use	Ex- port#	Total	Ending Stocks	Farm price 6/
Cotton 10/		Mil. acres		Lb /acra				Mil. bales				
1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	4.2 4.0 2.2 3.6 2.0 0.9	10.0 10.4 12.5 10.6 12.3 14.1	8.5 10.0 11.9 9.5 11.7 13.4	552 706 619 614 634 630	9.7 14.8 15.4 12.2 15.5 17.6	19 1 19.8 21.2 19.3 18.5 19.8		7.5 7.6 7.8 6.8 8.0	6.7 6.6 6.1 7.7 7.9 7.0	14.1 14.2 13.9 16.5 16.5	5.0 5.8 7.1 3.0 2.2 4.1	52.40 64.30 56.60 66.20 67.80

[&]quot;August 12, 1991 Supply & Demand Estimates. 1/ Marketing year beginning June 1 for wheat, barley, & oats, August 1 for cotton & rice, September 1 for soybeans, earn, & sorghum, October 1 for soymest & soyoil. 2/ Conversion factors: Hectare (hs.) = 2.471 acres, 1 metric ton = 2204,822 pounds, 38,7437 bushels of wheat or soybeans, 39,3679 bushels of corn or sorghum, 45,9295 bushels of barley, 58,8944 bushels of oats, 22,048 cwt of rice, & 4,59,480—pound bales of cotton, 3/ Includes diversion, PIK, acreage reduction, 50–92, & 0–92 programs. Data for 1991/92 are preliminary. 4/Includes imports. 5/ Market average prices do not include an allowance for loans outstanding & Government purchases. 6/ Residual included in forestic use. 7/Includes seed. 8/ Average of crude soybean oil. Decatur. 9/ Average of 44 percent. Decatur. 10/ Upland & extra long staple. Stocks astimates based on Census Bureau data, resulting in an unaccounted difference between supply & use estim4tss & changes in ending stocks. 11/ USDA is prohibited from publishing cotton price projections. — = not available or not applicable.

Information contact: Commodity Economics Division, Crops Branch (202) 219-0840.

Table 18.—Food Grains

		Marketic	ig year 1/		1990			1991		
10 mala ante mala a	1986/87	1987/88	1986/89	1989/90	June	Feb	Mar	Apr	May	June
Wholesate prices Wheat, No. 1 HRW,										
Kansas City (\$/bu.) 2/ Wheat, DNS,	2.72	2.96	4.17	4.22	3.60	2.77	2.94	2.98	3.04	2.99
Minneapolis (\$/bu.) 3/	3.07	3.15	4.36	4,16	3.96	2.85	3.00	3.07	3.10	3.04
Rice, S.W. La. (\$/cwt) 4/	10.25	19.25	14.85	15.55	16.00	15.45	15.75	16.40	18.50	17 25
Wheat Exports (mit. bu.)	200	. 500	-5		40		440		2.5	
Mili grind (mil. bu.)	999 755	1,598 -753	1,419 769	1,233 781	88	95 66	119 62	92 68	85 70	66
Wheat flour production (mil. cwt)	335	336	345	351	60 27	29	27	30'	31	_
Rice							_			
Exports (mil. cwt, rough equiv.)	84.2	72,2	65.9	76.8	3.1	7:3	8.4	5.3	4.6	—3·
	N.	tarketing year	1/	1989			1990			1991
helf.	1987/88	1986/89	1989/90	Sept-Nov	Dec-Feb	Mar-Mey	June-Aug	Sept-Nov	Dec-Feb	Mar-May
Wheat Stocks, beginning (mil. bu.)	4.004	1.261	702	t.917.2	1,423.7	943.1	536.5	2,409.5	4.000.0	1,396.0
Domestic use	1.821	1201	702	1,017.2	1,423.7	943.1	536.5	2,408.5	1.908.0	1,390.0
Food (mil. bu.)	721	726	753	191.6	185.7	185.0	196 4	211.2	192.7	195 6
Seed, feed & residual (mil. bu.) 6/	365	249	239	-17.5	38.0	-47.8	409.0	25.7	101.6	45.3
Exports (mil. bu.)	1,598	1,419	1.233	328.6	259.7	275 2	268.1	278.0	225.5	296.3

^{1/}Beginning June 1 for wheat & August 1 for rice. 2/ Ordinary protein. 3/ 14% protein. 4/ Long grain, milled basis. 5/ Residual includes feed use. — = not available. Information contacts: Ed Allen & Janet Livezey (202) 219–0840.

Table 19.—Cotton

		Market	ing year 1/		1990			1991		
U.S. price, SLM,	1986/87	1987/88	1988/89	1989/90	June	Feb	Mar	Apr	May	June
1-1/18 In. (cts./lb.) 2/ Northern Europe prices	53.2	63.1	57.7	69.8	77.1	77.7	77.9	79.9	83.9	79.1
Index (cts./lb.) 3/ U.S. M 1-3/32 in. (cts./lb.) 4/	62.0 61.8	72.7 78.3	66.4 69.2	82.3 83 6	90.3 92.7	85.2 93.8	83.7 94.7	832 96.8	84.4 99.3	83.8
		Market	ing year 1/			1	1990		1	991
	1986/87	1987/88	1988/89	1989/90	-	i i	F11	IV		- 1
U.S. mill consumpt. (1,000 bales) Exports (1,000 bales) Stocks, ending (1,000 bales)	7.452 8,684 5.026	7.817 8.582 5.771	7,782 6,148 7.092	8,759 7,694 3.000	2.201 2.669 8,010	2,232 1.882 3,918	2,182 1,396 3,207	1,954 1,864 11,555	2,152 3,116 6,913	2,317 1,637 2,959

^{1/} Beginning August 1, 2/ Average spot market. 3/ Liverpool Cotlook (A) index; average of five lowest prices of 11 selected growths. 4/ Memphis territory growths. — = not available.

Table 20.—Feed Grains

		Marke	ting year 1/		1990			1991		
	1986/87	1987/88	1988/89	1989/90	June	Feb	Mar	Apr	May	June
Wholesale prices Corn. no. 2 yellow, 30 day, Chicago (\$/bu.)	1.64	2.14	2.68	2.53	2.84	2.44	2.52	2.59	2.50	2.43
Sorghum, no. 2 yellow, Kansas City (\$/cwt)	2.73	3.40	4.17	4 21	4.54	4.21	4.35	4.34	4.13	4.02
Barley, feed, Duluth (\$/bu.) 2/	1.44	1,78	2.32	2.20	2.39	2.15	2.14	2.12	2.13	2.02
Barley, malting, Minneapolis (\$/bu.)	1.89	2.04	4.11	3 20	2.92	2.38	2.48	2.48	2.41	2.26
Exporte 3/ Corn (mil. bu.) Feed grains (mil. metric tons) 4/	1,492 45.9	1. 716 52.3	2,028 61.1	2.369 69.7	201 5.4	183 5.4	189 5.6	144 4.4	120	4
		Marketi	ng year 1/			1990			1991	
	1986/87	1987/88	1988/89	1989/90	Mar-May	June-Aug	Sept-Nov	Dec-Feb	Mar-May	June-Aug
Stocks, beginning (mil. bu.) Domestic use	4.040	4,882	4.259	1,930	4,812	2.843	1,344	6.940	4,789	2.992
Feed (mil. bu.) Food, seed, ind. (mil. bu.) Exports (mil. bu.)	4.701 1,192 1,492	4,812 1,229 1,716	3.981 1.251 2.028	4,455 1,290 2,389	1.014 355 601		1, 648 307 383	1.376 305 471	981 363 454	=
Total use (mil. bu.)	7.385	7.757	7.260	8.113	1.970		2.338	2,152	1,798	_

^{1/} September 1 for corn & sorghum; June 1 for cats & barley. 2/ Beginning March 1987 reporting point changed from Minneapolis to Duluth, 3/ Does not include products. 4/ Aggregated data for corn, sorghum, cats, & barley. — = not available.

Information contact: Joy Harwood (202) 219-0840.

Table 21.—Fats & Oils

	Marketing year *				1990		1991		
	1986/87	1987/88	1988/89	1989/90	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June
Soybeans Wholesale price, no. 1 yellow, Chicago (\$\frac{x}{D}u.\) Crushings (mil. bu.\) Exports (mil. bu.\) Stocks, beginning (mil. bu.\)	5 03 1,178.8 758 9 536.4	6.67 1,174.5 801.6 436.4	7.41 1,057.7 527.0 302.5	5.86 1.146.0 623.0 182.0	6.07 280.5 101.9	5.56 278.5 76.9	5.86 314.7 148 4	5.70 297.9 192.2	5.73 280.1 118.5
Soybean oil Wholesale price, crude, Decatur (cts./lb.) Production (mil. lb.) Domestic disap, (mil. lb.) Exports (mil. lb.) Stocks, beginning (mil. lb.)	15.36 12,783.1 10,833.0 1,187.0 946.6	22.67 12.974.5 10,930.0 1,873.2 1,725.0	21.09 11,737.0 10,591.0 1,661.0 2,092.2	22.28 13.003.6 12.083.0 1.353.0 1.715.4	24.37 3,118.8 3.152.6 306.9 1,694.9	24.73 2,728.7 3,135.3 503.7 1,421.7	21.73 3.150.0 3.494.0 204.7 1,305.0	21,58 3,331,1 2,849,7 21,1 1,463 8	20.43 3,120.9 3,116.8 88.6 1.874.8
Soybean meal Wholesale price, 44% protein. Decatur (\$/ton) Production (1,000 ton) Domestic disap. (1,000 ton) Exports (1,000 ton) Stocks, beginning (1,000 ton)	162.61 27.758.0 20.387.4 7.343.0 211.7	221.90 28,060.2 21.293.0 6,854.0 240.2	233.46 24.942.7 19,667.0 5.270.0 153.5	173.75 27,719.0 22.558.0 5,024.4 172.9	170,30 6,671,3 5,445,7 1,274,9 262,5	173,54 6,621.0 5,719.6 850.6 313.3	166.77 7.543.5 6.102.1 1,208.6 318.0	161.4 7,082.0 5,469.0 1,556.4 455.8	171.2 6,640.8 5,668.4 1,075.2 527.8
Margarine, wholesale price, Chicago, white (cts./b.)	40.3	40.3	52.3	54.89	59.3	62.6	62.0	63.2	62.1

^{*} Beginning September 1 for soybeans; October 1 for soymeal & oil; calendar year for margarine. -- = not available

Information contacts: Roger Hoskin (202) 219-0840.

Table 22.—Farm Programs, Price Supports, Participation & Payment Rates

					Payment rates				
	Towns	Loan	Findley	Deficiency	Paid land	d diversion	Effective base	Program 3/	Partici- pation
	Terget Price	Loan rate	rate 1/		Mendetory	Optional	acres 2/	December of	Percent
) His a a b				\$/bu.			Mit. acres	Percent of base	of base
Wheat 1985/86 1986/87 &/ 1987/88 1988/80 1989/90 1990/91 &/ 1991/92 1992/93	4.38 4.38 4.38 4.23 4.10 4.00 4.00	3.30 3.00 2.85 2.76 2.58 2.44 2.52	2.40 2.28 2.21 2.06 1.95 2.04	1,08 1,98 1,81 0,69 0,32 1,28 1,47	2.70	2.00	94.0 91.6 87.8 84.8 82.3 80.6 79.3	20/10/0 22.5/2.5/5-10 27.5/0/0 27.5/0/0 10/0/0 7/ 5/0/0 15/0/0 5/0/0	73 85 88 86 78 83 85
Rice			01 0 40	\$/cwt	3.50		4.3	20/15/0	80
1985/86 1986/87 5/ 1987/86 1988/89 1989/90 1990/91 6/ 1991/92	11.90 11.90 11.66 11.15 10.80 10.71 10.71	8.00 7.20 6.84 6.63 6.50 6.50	8/ 3.16 8/ 3.94 8/ 5.79 8/ 5.71 8/ 5.08	3.90 4.70 4.82 4.31 3.56 4.21 3.76	* = =		4.2 4.2 4.2 4.2 4.2 4.2 4.2	35/0/0 35/0/0 25/0/0 25/0/0 20/0/0 5/0/0	90 94 96 94 95 94
Corn 1985/86	3.03	2.55	_	0.48	_	-	84.2	10/0/0	69
1986/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92	3.03 3.03 2.93 2.84 2.76 2.76	2.40 2.28 2.21 2.06 1.96 1.69	1.92 1.82 1.77 1.65 1.57 1.62	1,11 1,09 0,38 0,58 0,53 0,58	0.73	2.00	84.2 81.7 81.5 82.9 82.7 82.0 82.0	17.5/2.5/0 20/0/15 20/0/10 10/0/0 10/0/0 7.5/0/0	86 91 87 80 77 77
Sorghum				\$/bu.					
1985/88 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92	2.88 2.88 2.88 2.78 2.70 2.61 2.61	2.42 2.28 2.17 2.10 1.96 1.86 1.80	1.82 1.74 1.88 1.57 1.49	0.46 1.06 1.14 0.48 0.66 0.58 0.56	0.65	1.00	19.3 19.0 17.4 16.8 16.2 15.4 13.6	9/ (same)	55 74 85 82 71 70
Barley				\$/bu.					
1985/88 1984/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92	2.60 2.60 2.60 2.51 2.43 2.36 2.36	2.08 1.95 1.86 1.80 1.68 1.60 1.54	1.56 1.49 1.44 1.34 1.28 1.32	0.62 0.09 0.79 0.00 0.00 0.22 0.47	0.67	1.60	13.3 12.4 12.5 12.4 12.3 11.9	9/ (same)	57 72 85 78 67 68 76
Oats				\$/bu.			0.4	9/ (same)	14
1985/85 1987/87 1987/88 1988/89 1989/80 1990/91 1991/92	1.80 1.80 1.80 1.55 1.50 1.45	1.31 1.23 1.17 1.14 1.06 1.01 0.97	0.99 0.94 0.90 0.85 0.81 0.83	0.29 0.39 0.20 0.00 0.00 0.33 0.15	0 38	0.80	9.4 9.2 8.4 7.0 7.6 7.6 7.3	5/0/0 5/0/0 5/0/0 0/0/0	38 45 30 18 09 38
Soybeans 10/				\$/bu.					
1985/86 1986/87 5/ 1987/88 1988/89 1986/90 1990/91 6/ 1991/92		5.02 4.77 4.77 4.77 4.53 4.50 5.02						11/ 10/26 11/ 0/25 11/ 0/26	
Upland cotton 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92	81.0 81.0 79.4 75.9 73.4 72.9 72.9	57.30 55.00 52.25 61.80 50.00 50.27 50.77	57.30 12/ 44.00 13/ 60.00 13/ 51.89 13/ 55.05 13/ 53.00	Cta./lb. 23.70 26.00 17.3 19.4 13.1 7.3 10.0	30.00		16.9 15.5 14.5 14.5 14.6 14.4	20/10/0 25/0/0 25/0/0 12.5/0/0 25/0/0 12.5/0/0 5/0/0	62 92 93, 89 89 80

^{1/} There are no Findley loan rates for rice or cotton. See footnotes 8/, 12/, and 13/. 2/ National affective crop acreage base as determined by ASCS. Net of CRP.
3/ Program requirements for participating producers (mandatory acreage reduction program/mandatory paid land diversion/optional paid land diversion). Acres idled
must be devoted to a conserving use to receive program benefits. 4/ Percentage of effective base acres annoticed in acreage reduction programs. 6/ Payments and loans
received in cash were reduced by 4.3 percent in 1980/87 due to
Gramm-Rudman-Hollings. Budget Reconciliation Act reductions to deficiency payments rates were also in affect in that year. Data do not include these reductions.
7/ Under 1990 modified contracts, participating producers plant up to 105 percent of their wheat base acres. For every acre planted above 95 percent of base, the
creage used to compute deficiency payments was cut by 1 acre. 8/ A marketing loan has been in affect for rice since 1985/86. Loans may be repaid at the lower of: a)
the loan rate or b) the adjusted world market price (announced weekly). However, loans cannot be repaid at less than a specified fraction of the loan rate. Data refer
to annual everage adjusted world prices. 9/ The sorghum, oats, and bariey programs are the same as for core except as indicated. 10/ There are no target prices, base acres
acresse reduction programs, or deficiency payment rates for soybeans. 11/ Nominal percentage of program crop base acres permitted to shift into soybeans without loss of
12/ A marketing loan has been in effect for cotton since 1986/87. The loan repayment rate was fixed at 80 percent of the loan rate in 1986/87 (Plan A). 13/ In 1987/88 and
after loans and the lower of: a) the loan rate or b) the adjusted world market price (announced weekly; Plan B). Starting in 1991/92, loans cannot be repaid
at local time of the loan rate. Data refer to annual acresses annual percentage of program core detections. The loan repayment rate was fixed at 80 percent of the loan r

Table 23.—Fruit

1982	1983	1984	1985	1986	1987	1988	1989	1990 P
		10.832	10.525	11,058	11,993	12,761	13,186	10.845
2,4.4	29.5	24,0	22.0	26.1	25.4	20.4	24.0	22.6
14,658	14,168	14,301	14,191	13.874	16,011	15,893	16,335	15,605
0∠.8	63.8	67.7	66.7	69.8	75.4	72.7	74.3	69.8
	1990				1	991		
Oct	Nov	Dec	Jan	Føb	Маг	Apr	Мау	June
12.16	13.00	13.08	14.06	14.00	14.00	14.00	14.00	14.00
_	12.56	13.00	14.00	13.85	13.48	13.74	15.12	18.90
4.48	8.31	6.18	6.62	5 98	7.41	7.37	7.95	21.35
0.51	5.53	5.03	5.00	4.50	5.43	5.10	4.01	5.44
4 500 0	4 002 7	2 270 2	0.804.8	0 100 T	4 F80 G	1 080 0	000 T	000 0
449.6	322.6	266.2	191.1	145.4	95.0	50.8	14.7	386.2
912.7	864.5	838.0	760.7	679.6	635.2	566.7	549.8	598 2
802.0	871.3	1.031.6	1,195 8	1,199,5	1.236.7	1,363 2	1,304.7	1.073 0
	12,139 24.8 14.658 62.8 Oct 12.16 4.48 6.51 4.590.0 449.6 912.7	12,139 13,682 29.5 14,658 14,168 62.8 63.8 1990 Oct Nov 12.16 13.00 12.56 4.48 8.31 6.51 5.53 4,590.0 4,003.7 449.6 322.6 912.7 864.5	12,139 13,682 10.832 24.8 29.5 24.0 14,858 14,168 14,301 62.8 63.8 67.7 1990 Oct Nov Dec 12.16 13.00 13.08 12.56 13.00 4.48 8.31 6.18 6.51 5.53 5.63 4.590.0 4.003.7 3,378.3 449.6 322.6 266.2 912.7 864.5 838.0	12,139	12,139	12,139	12,139	12,139

^{1/ 1990} Indicated 1989/90 season. 2/ Fresh per capita consumption. 3/ Calendar year. 4/ Red delicious, Washington, extra fancy, certon tray pack, 125's, 5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's, 6/ U.S. equivalent on–tree returns. P = preliminary. — = not available.

Information contact: Wynnice Napper (202) 219-0884.

Table 24.—Vegetables

	Calendar year											
Production	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990		
Total vegetables (1,000 cwt) Fresh (1,000 cwt) 1/3/ Processed (tons) 2/3/ Mushrooms (1,000 lbs.) Potaloss (1,000 cwt) Sweetpolatoes (1,000 cwt) Dry edible beans (1,000 cwt)	392,343 183,456 10,444,330 517,146 340,623 12,799 32,751	430.795 193.451 11,867,170 490.826 355.131 14,833 25.563	403.509 185.782 10.886.350 561,531 333.726 12.083 15.520	456,334 201,817 12,725,880 595,681 362,039 12,902 21,070	453.030 203,549 12,474.040 587,956 406,609 14,573 22,175	448,829 203,165 12,273,200 814,393 361,743 12,368 22,886	478.381 220.539 12.892.100 631.819 389.320 11.611 26,031	468,779 228,397 12,019.110 667,759 358,438 10,945 19,253	542,437 239,281 15,157,790 715,010 370,444 11,358 23,729	561.768 239.114 16.132,680 393.867 13.020 32.429		
			1990					1991				
Shipments	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Арг	May	June		
Fresh (1,000 cwl) 4/ Potatoes (1,000 cwt) SweetPotatoes (1,000 cwt)	14,898 8,959 302	20,451 11,947 562	17,623 11,405 929	17.112 10.434 545	23.352 14.681 399	19,405 11,322 400	19.215 12.337 486	20,681 14,497 283	30,842 15.695 291	26,747% 10,395 188		

^{1/} includes fresh production of asparagus, broccoli, carrots, cauliflower, celery, sweet corn, lettuce, honeydews, onions, & tomatoes. 2/ Includes processing production of snap beans, sweet corn, green peas, tomatoes, cucumbers (for pickles), asparagus, broccoli, carrots, & cauliflower. 3/ Asparagus & cucumber estimates were not available for 1982 & 1983. 4/ includes snap beans, broccoli, cabbaga, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, onions, bell peppers, equash, tomatoes, cantaloupes, honeydews, & watermelons. — = not available.

Information contacts: Gary Lucier or Cathy Greene (202) 219-0884,

Table 25.—Other Commodities

			Annual				1000			4
			Annual				1990			1991
Sugar	1986	1987	1998	1989	1990	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June
Production 1/ Deliveries 1/ Stocks, ending 1/	6.257 7,786 3,225	7,309 8,167 3,195	7.087 8,188 3,132	6,840 8,309 2,946	6,319 8,633 2,642	572 2,058 2,165	652 2,316 1,210	3,419 2,315 2,729	2,206 2,019 3,530	626 2,103 2,487
Coffee Composite green price N.Y. (cts./lb.) Imports, green bean	185.18	109,14	115.59	95.17	76 93	78.55	79.10	76.85	74.94	72.13
equiv. (mil. lbs.) 2/	2,596	2,638	2,072	2.630	2,714	702	530	818	748	583
		Annual		1989			1	990		
Tobacco	1987	1988	1989	Dec	July	Aug	Sept	Oct	Nov	Dec
Prices at auctions 3/ Flue-cured (\$/lb.) Burley (\$/lb.) Domestic consumption 4/	1.59 1.5 8	1.61 1.61	=	1.67	=	=	1.73	1.72	1.65 1.75	1.75
Cigarettes (bil.) Large cigars (mil.)	57 5.0 2,728	562.5 2.531	540.1 2,467.6	34 3 177.8	39.8 164.4	49.9 210.8	43.3 195.5	44.0 191.1	45.0 209.0	34.1 157.0

^{1/ 1,000} short tons, raw value. Quarterly data shown at end of each quarter. 2/ Net imports of green & processed coffee, 3/ Crop year July-June for flue-cured, Oct.-Sept. for burley. 4/ Taxable removals. — = not available.

Information contacted augen Pater Bustainall (202) 219–3888, cores. Total Grad (202) 719–3889, tobrusto, Verner Griss (202) 219–3890.

World Agriculture

Table 26.—World Supply & Utilization of Major Crops, Livestock, & Products

	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91 P	1991/92 F
	•			Million units			
Wheat Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	229.6	228.2	220.0	218.0	226.3	231.9	223.6
	500.1	530.7	502.3	501.4	537.6	593.0	560.5
	85.0	90.7	104.9	97.2	96.2	94.0	105.3
	496.2	522.5	530.3	532.0	534.3	572.1	580.1
	168.2	178.4	148.4	117.9	121.1	142.0	132.3
Coarse grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	341.3	336.5	324.5	326.1	321.0	319.2	320.5
	843.1	831.9	794.8	733.2	800.0	827.3	798.6
	83.2	83.7	82.5	94.2	100.0	85.0	83.0
	778.8	806.1	815.2	797.5	824.8	622.3	811.6
	208.2	234.0	213.8	148.3	124.5	129.5	116.5
Rice, milled Area (hectares) Production (metric tons) Exports (metric tons) 4/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	144.9	145.3	141.6	145.6	146.6	147.0	147.2
	318.9	318.7	314.2	330.9	344.0	348.3	344.2
	12.6	12.9	11.9	15.1	12.0	12.6	12.9
	319.4	322.7	320.0	328.6	337.5	345.8	345.7
	55.4	51.4	45.6	47.9	54.5	67.1	55.6
Total grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	715.8	710.0	686.1	689.7	693.9	698.1	691.3
	1,662.1	1,681.3	1,611.3	1.565.5	1,681.6	1,768.6	1,693.3
	180.8	187.3	199.3	206.5	208.2	191.6	201.2
	1,594.4	1,651.3	1,665.5	1.658.1	1,696.6	1,740.2	1,717.4
	431.8	461.8	407.6	315.1	300.1	328.6	304.4
Oilseeds Crush (metric tons) Production (metric tons) Exports (metric tons) Ending stocks (metric tons)	155.1	161.8	168.5	166.4	173.2	177.4	179.4
	196.2	194.9	210.6	204.2	214.0	217.4	220.8
	34.5	37.7	39.5	32.0	36.1	34.3	34.4
	28.8	23.3	24.0	22.2	23.2	22.2	22.6
Meals Production (metric tons) Exports (metric tons)	105.0	110.7	115.4	112.2	117.9	119.6	121.1
	34.4	36.7	35.8	37.7	38.8	39.0	38.9
Oils Production (metric tons) Exports (metric tons)	49.4 16.4	50.4 16.9	53.3 17.5	53.9 18.3	57 .6 20.1	58.5 1 9.6	60.2 20.0
Cotton Area (hectares) Production (bales) Exports (bales) Consumption (bales) Ending stocks (bales)	31.7	29.5	31.0	33.7	31.6	33.3	34.8
	80 4	70.7	81.0	84.7	80.0	86.7	91.1
	20.3	26.0	23.2	25.9	24.0	23.4	23.6
	76.9	82.8	84.1	85.3	86.5	85.6	88.0
	48.5	35.9	32.8	32.0	26.4	27.5	30.0
	1985	1986	1987	1988	1989	1990 P	1991 F
Red meat Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	105.5	108.6	111,5	115 2	116.9	118.3	119.7
	103.4	107.4	109.7	113.4	115.2	116.8	118.1
	6.3	6.7	6.7	6.9	7.4	6.9	7.2
Poultry 5/ Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	26.2	29.3	31.3	32.9	34.2	35.7	37.2
	25.8	28.9	30.8	32.5	33.8	35.1	36.6
	1.2	1.2	1.5	t.7	1.8	2.1	2.2
Dairy Milk production (metric tone)	413.4	425.9	425.9	429.1	435.0	440.9	442.1

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1986 data correspond with 1985/86, etc. 5/ Poultry excludes the Peoples Republic of China before 1986. P = pretiminary. F = forecast.

Information contacts: Crops, Carot Whitton (202) 219-0824; red meat & poultry, Linda Bailey (202) 219-1285; dairy, Sara Short (202) 219-0770.

U.S. Agricultural Trade

Table 27.—Prices of Principal U.S. Agricultural Trade Products

		Annual		1990			1991			
	1988	1989	1990	June	Jan	Feb	Mar	Apr	May	June
Export commodities Wheat, f.o.b, vessel, Guif ports (\$/bu.) Corn, f.o.b, vessel, Guif ports (\$/bu.) Grain sorghum, f.o.b, vessel,	3.07	4.65	3.72	3.69	3.05	3.13	3.28	3.31	3.35	3.29
	2.73	2.85	2.79	3.06	2.71	2.74	2.70	2.81	2.70	2.66
Gulf porte (\$/bu.) Soybeans, f.o.b. vessel, Gulf ports (\$/bu.) Soybean oil, Decatur (cts.flb.) Soybean meal, Decatur (\$/fon)	2. 52	2.70	2.65	2.79	2.68	2.72	2.80	2.79	2.62	2.51
	7.81	7.06	6.24	6.23	6.03	6.08	6.14	6.20	6.09	6.03
	23.52	20.21	22.75	24.96	21.42	21 48	22 20	21.46	20.29	19.55
	234.75	216.59	169.37	169.50	156.36	164.01	165.70	171.32	171.14	171.43
Cotton, 8-market avg. spot (cts./lb.) Tobacco, avg. price at auction (cts./lb.) Rice, f.o.b, mill. Houston (\$/cwt) Inedible tallow, Chicago (cts./lb.)	57.25	63.78	71.25	77.06	70.51	77.69	77.92	79.93	83.94	79.05
	147.82	161.74	166.06	184.68	171.81	171.70	170.89	171.12	171.12	171.12
	19.60	15.68	15.52	16.25	14.50	16.00	16.00	16.00	16.00	17.00
	16.64	14.71	13.54	14.01	14.43	12.91	13.63	13.57	12.25	12.48
Import commodities Coffee, N.Y. apot (\$/Ib.) Rubber, N.Y. apot (cts./Ib.) Cocoa beans, N.Y. (\$/Ib.)	1.21 59.20 0.69	1.04 50 65 0.55	0.81 46.28 0.55	0.78 46.00 0.57	0.82 47.47 0.55	0.80 48.92 0.53	0.82 49.09 0.53	0.80 45.92 0.50	0.78 45.18 0.47	0.71 45.26 0.45

Information contact: Mary Teymourlan (202) 219-0824:

Table 28.—Indexes of Real Trade-Weighted Dollar Exchange Rates¹

			1990						1991			
	Aug	Sept	Oct	Nov	Dec	Jan	Feb P	Mar P	Apr P	May P	June P	July P
					1985	= 100						
Total U.S. trade 2/	63.4	63.1	61.1	60.1	8.08	81.0	59.8	63.5	66.4	66.7	68.7	70.1
Agricultural trade												
O.S. markets	79.2	79.6	76.6	75.7	76.3	76.5	75.5	77.3	78.8	79.0	79.9	80.5
U.S. competitors	76.2	75.3	75.0	73.7	73.9	75.3	74.2	75.4	78.4	76.6	77.1	77.4
Wheat							- + .					
U.S. markete	96.4	96.3	95.5	94.8	96.2	97.3	96.1	96.9	97.3	97.8	₽8.3	98.9
U.S. competitors	72.3	70.8	69.6	68.6	68.0	69.2	68.7	70.3	71.1	71.1	71.6	71.7
Soybeane												_
U.S. markets	67.1	66.3	64.2	63.3	63.9	64.3	63.1	65.6	68.3	68.7	70.3	71.5
U.S. competitors	63.7	58.2	57.9	54.0	53.1	59.0	57.7	56.9	56.9	56.9	56.9	57.0
Corn												
U.S. markets	73.9	72.3	70.1	69.4	70.3	70.3	69.1	71.3	72.2	72.4	73.3	73.9
U.S. competitors	89.6	65.2	61.4	58.3	57.1	61.3	60.7	63.1	64.7	65.0	65.8	66.4
Cotton												
U.S. markets	75.9	74.9	72.8	72.3	73.2	73.3	72.3	74.4	75.0	75.2	75.0	76.4
U.S. competitors	89.4	89.2	0.80	85.9	85.0	84.8	83.3	82.0	81.8	81.3	80.7	79.9

^{1/} Real Indexes adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets. P = preliminary.

Information contact: Tim Baxter, David Stallings (202) 219-0719.

Table 29.—Trade Balance

					Fiscal year 1	1			Мау
	1984	1985	1986	1987	1988	1989	1990	1991 F	1991
					\$ million)			
Exports									
Agricultural	38,027	31,201	26,312	27,976	35,316	39, 63 7	40,182	37,000	3,092
Nonagricultural	170,014	179.236	179.291	202,911	258,656	301,222	325,928	_	31,341
Total 2/	208,041	210,437	205,603	230.787	293,972	340.859	366,110	_	34,433
Imports									4
Agricultural	18,916	19,740	20.884	20.650	21,014	21.477	22,514	22,500	1,966
Nonagricultural	297,736	313,722	342.848	367,374	409,138	441,074	458,147	_	37,559
Total 3/	316.652	333,462	363,730	388,024	430,152	482,551	480,661		39,525
Trade balance	0.0.002	0001110							
Agricultural	19.111	11,461	5.428	7.226	14.302	18,160	17,668	14,500	1,126
Nonagricultural	-127,722	-134,486	-163,555	-164,483	-150,482	-139,852	-132.219	-	-6,218
Total	-108,811	-123,025	-158,127	-157,237	-136,180	-121,692	-114.551		-5,092

^{1/} Fiscal years begin October 1 & end September 30. Fiscal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. 2/ Domestic exports including Department of Defense Shipments (F.A.S. value). 3/ Imports for consumption (customs value). F = forecast. — = not available.

Information contact. Stephen MacDonald (202) 219-0622.

Table 30.—U.S. Agricultural Exports & Imports

		Flacal ye	er*	May		Fiecal y	ear*	Мау
	1989	1990	1991 F	1991	1989	1990	1991 F	1991
EXPORTS			1,000 units				\$ million	
Animals, live (no.) 1/ Meats & preps., excl. poultry (mt) Dairy products (mt) 1/ Poultry meats (mt) Fats. oils, & greases (mt)	758 869 192 428 1.377	685 876 92 567 1,264	2/ 700 600 1,100	111 83 2 51 87	475 2,355 475 510 531	361 2. 457 348 631 459	400	29 250 28 63 33
Hides & eldne inct. furekins Cattle hides, whole (no.) 1/ Mink petts (no.) 1/	26,260 3,073	24.777 5,128	Ξ	1,720 582	1,713 1,360 91	1,798 1,365 116	Ξ	130 98 14
Graine & feede (mt) Wheat {mt} Wheat four (mt) Rice (mt) Feed grains, incl. products (mt) Feeds & fodders (mt) Other grain products (mt)	114,692 37,641 1,176 3,041 60,958 11,088 790	112,987 27,999 882 2,501 69,510 11,125 970	27.500 1,000 2,400 52,000 5/ 11,100	7.138 2,225 70 210 3,595 972 66	16,821 6,004 255 955 7,374 1,849 384	15.894 4,209 203 829 8,093 1,826 534	3/ 12.400 4/ 3.100 800 5.700	965 243 14 72 414 169 53
Fruits, nuts, & preps. (mt) Fruit juices inc).	2.555	2.873	_	194	2,394	2.789	_	219
froz. (1.000 hectoliters) 1/ Vegetables & preps. (mt)	4,997 1,665	5, 97 5 2,243		606 247	2 64 1.542	328 2.079	=	33 247
Tobacco. unmanufactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar. cane or beet (mt)	212 1.441 511 368	220 1.666 576 447	1,800	28 120 18 47	1.274 2.040 507 134	1,373 2,704 5 76 187	1,400 3,000 600	205 198 24 17
Oilseeds & products (mt) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable cils (mt) Essential cils (mt) Other	21.052 14,592 14,093 4,963 1.498 13	23.772 17.703 17,217 4.767 1.302 14 89	14.700	1.605 1.112 1.060 417 76 1	8,629 4,363 4,085 1,358 908 171 1,802	6,098 4,246 3,939 1,022 830 182 2,120	3,400	413 279 246 82 52 15 224
Total	145,481	147.686	129,000	9,630	39.637	40,182	37,000	3,092
IMPORTS								
Animats. live (no.) 1/ Meats & preps., excl. poultry (mt) Beef & veal (mt) Pork (mt)	2.485 1.091 668 371	2.940 1.142 754 340	750 370	310 108 74 28	740 2.432 1,525 778	1,053 2,848 1,842 888	1.100 1.800 1,000	113 271 187 75
Dairy products (mt) 1/ Poultry & producte 1/ Fats, oils, & greases (mt) Hides & skins, incl. furskins 1/ Wool, unmanufactured (mt)	211 14 82	254 19 47.	= =	20 4 4	834 130 14 241 319	951 129 15 135 187	900	69 11 2 21 13
Grains & feeds (mt) Fruits, nuts, & preps.,	3,467	3.471	3,500	339	1,139	1,181	1,200	100
excl. juices (mt) Bananas & plantains (mt) Fruit juices (1,000 hectoliters) 1/	5.036 3.039 27,747	5.331 3.236 33.922	5.300 3,200 30,000	544 302 2.987	2,269 851 792	2,486 926 1,001	1,000	259 89 75
Vegetables & preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ Sugar, cane or beet (mt)	2.217 169 13 158 	2.242 193 30 171 1,769	170	161 15 1 12 —	1,959 521 8 187 466 620	2.284 588 20 1 6 4 519 734	2,100	197 47 1 15 50 27
Oilseeds & products (mt) Oilseeds (mt) Protein meal (mt) Vegetable oils (mt)	1,917 424 359 1,133	2,034 534 310 1.189		185 41 34 110	946 159 65 721	964 206 48 710	1,000	80 13 5 62
Beverages excl. fruit Juices (1,000 hectoliters) 1/	4.0.00=	10 540			40.7	4 00-		
Coffee, tea, cocoa, spices Coffee, incl. products (mt) Cocoa beans & products (mt)	13.967 1,867 1,084 564	13,5 43 2,202 1,290 698	3,200 1,200 650	1,169 177 95 62	1,815 3,896 2,467 969	1,867 3,465 1,997 1,042	2,000	160 290 164 84
Rubber & allied gums (mt) Other	927	840	850	61	1,051 1,097	712	700	51 114
Total				_	21,477	1.229	22.500	1,968
					21,477	22,319	22.300	1,000

^{*}Fiscal years begin Oct. 1 & end Sept. 30. Flacal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. 1/ Not included in total volume and also other dairy products for 1989 & 1990. 2/ Forecasts for footnoted items 2/-6/ are based on slightly different groups of commodities. Fiscal 1990 exports of categories used in the 1991 forecasts were 2/ 676,000 m., tons. 3/ 16,014 million. 4/ 4,426 million i.e. includes flour. 5/ t1,065 million m., tons. F = forecast. —= not available.

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Table 31.—U.S. Agricultural Exports by Region .

		Fiscal year	•	May	Chang	e from year	r" earlier	May
Region & country	1989	1990	1991 F	1991	1989	1990	1991 F	1991
		\$	million			F	Percent	
WESTERN EUROPE European Community (EC-12) Belglum-Luxembourg France Germany, Fed. Rep. Italy	7,074 6,565 431 474 918 809	7,331 6.838 431 469 1,096 704	7.000 6.500	468 425 43 24 57 48	-12 -12 1 -16 -28 -15	4 4 0 -1 19	44	-1 -4 43 -23 -7 -5
Netherlands United Kingdom Portugal Spain, Incl. Cansty Islands	1.847 738 307 876	1,637 761 338 991	=	123 58 14 37	-12 -10 -10 3	-11 3 10 13	Ξ	31 -4 -52 -41
Other Western Europe Switzerland	510 166	493 171	400	43 19	-2 -14	-3		43 62
EASTERN EUROPE German Dem. Rep. Poland Yugoslavia Romania	422 72 45 76 62	533 58 101 129 210	500	13 0 4 9	-24 8 -73 -26 -33	26 -20 124 69 239	-20 	-71 -100 -77 224 -99
USSR	3.299	2.989	1,600	71	70	-9	-47	-73
ASIA West Asia (Mideast) Turkey Iraq Israel, Incl. Gaza & W. Bank Saudi Arabia	18.677 2.273 238 791 331 482	18.131 1.995 259 497 285 502	16,700 2,000 0	1.441 142 48 0 36 32	17 19 97 8 -1 4	-3 -12 9 -37 -14	-8 0 -100 -20	-1 -2 310 -100 38 2
South Asia Bangladeeh India Pakistan China Japan	1,161 213 243 599 1,496 8,148	729 125 115 391 909 8,106	100 600 7,800	8 1 6 2 73 724	44 98 -31 117 144 12	-37 -41 -53 -35 -39 -1	-75 -33 -4	-82 -94 -17 -94 15
Southeast Asia Indonesia Philippines	976 216 344	1,184 277 351	400	87 19 24	-4 -9 0	21 28 2		-14 -10 -45
Other East Asia Talwan Korea, Rep. Hong Kong	4.623 1,594 2,453 675	5.207 1,818 2.703 685	4,700 1,600 2,300 800	407 157 183 67	7 1 9 18	13 14 10 19	-10 -11 -15 14	0 25 -15 3
AFRICA North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa	2,280 1,796 216 549 955 483 30 57	2.009 1.524 188 488 761 484 32 81	1.800 1.400 500 800 400	147 106 10 36 46 41 3	0 8 12 2 21 -21 -31 -34	-12 -15 -23 -11 -20 0 7	-10 -7 -0 0 0	-9 -18 -15 -29 -23 28 167 435
LATIN AMERICA & CARIBBEAN Brazil Caribbean Islands Central America Colombia Mexico Peru Venezuela	5.437 149 1.007 448 139 2.755 81 587	5,158 105 1,006 484 147 2,666 187 345	5.000 200 — 2.400 400	493 12 94 48 17 260 13 28	24 -15 16 8 -22 60 -54 -2	-5 -30 0 4 6 -3 132 -41	-2 100 -11 33	12 158 10 0 429 4 55
CANADA	2.179	3.716	4.300	432	10	71	16	7
OCEANIA	268	317	300	28	13	18	0,	8
TOTAL	39,637	40,182	37,000	3.092	12	1	-8	-5
Developed countries	17,997	19,780	19,800	1,693	1	10	0	64
Less developed countries	16.423	15,970	14.500	1,242	14	-3	-0	-2
Centrally planned countries	5.217	4,431	2,700	157	86	-15	-39	-58

^{*}Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. F = forecast. — = not evailable Note: Adjusted for transshipments through Canada.

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Farm Income

Table 32.—Farm Income Statistics

						Calendary	/ear				
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 F
						\$ billion					
Farm receipts Crops (Incl. net CCC loans) Livestock Farm related 1/	144.1 72.5 69,2 2.5	147.2 72.3 70.3 4.6	141.3 67.2 69.6 4.5	147.1 69.9 72.9 4.3	149.4 74.3 60 .8 5.3	140.2 63.7 71.5 5.0	147.5 65.6 76.0 5.9	155.9 71.4 78.8 5.7	188.5 75.4 83.7 7.4	174 78 89 6	170 to 176 76 to 80 88 to 90 6 to 7
Direct Government payments Cash payments Value of PtK commodities	1.9 1.9 0.0	3.5 3.5 0.0	9.3 4.1 5.2	8.4 4.0 4.5	7.7 7.8 0.1	11.8 8.1 3.7	16.7 6.6 10_1	14.5 7.1 7,4	10.9 9.1 1.7	8 1	8 to 9 7 to 8 0 to 1
3. Total gross term income (4+5+6) 2/ 4. Gross cash income (1+2) 5. Nonmoney income 3/ 6. Value of inventory change	186.3 148.0 13.8 6.5	163.5 150 6 14.3 -1.4	153.2 150.6 13.5 -10.9	170.2 155.5 8.7 6.0	162.9 157.2 8.0 -2.3	156.5 152.0 6.9 -2.4	169.0 164.3 7.5 -2.8	173.8 170.4 7.5 -4.1	189.2 177.5 7.3 4.4	193 183 8 3	186 to 193 179 to 184 7 to 9 0 to 3
7. Cash expenses 4/ 8. Total expenses	113.2 139.4	112.8 140.0	111.0 137.9	119.0 143.8	109.3 131.9	105.2 125.5	108.2 127. 7	112.3 132 1	122.8 142.6	125 146	124 to 129 145 to 150
 Net cash income (4-7) Net farm income (3-8) Defiated (1982\$) 	32.8 26.9 28.6	37.9 23.5 23.5	39.5 15.3 14.7	36.6 26.3 24.5	47.9 31.0 27.9	46.7 31.0 27.3	56.1 41.3 35.2	58.1 41.8 34.4	54.6 46.7 38.9	58 47 36	52 to 57 40 to 45 30 to 33
11. Off-farm income	35.8	38.4	37.0	39 2	55.2	54.5	56.9	57.7	67.5		
12. Loan changes 5/: Real estate 13. 5/: Non-real estate	9.0 6.5	3.8 3.4	2 3 0.9	-2.0 -0.8	-6.4 -9.6	-8.7 -11.0	-7.7 -4.6	-4.1 -0.3	-2.1 0,1	=	_
 Rental income plus monetary change Capital expenditures 5/ 	6.4 16.8	6.4 13.3	5.4 12.7	9 2 12.5	9.1 9.2	8.0 8.5	6.8 11.1	7.5 11.1	8.2 13.0	— 19	
16. Net cash flow (9+12+13+14-15)	37.8	38.2	35.3	30.4	31.9	28.6	39.5	50.2	48.0		_

^{1/} income from machine hire, custom work, sales of forest products, & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to calculate a given item. 3/ Value of home consumption of self-produced food & Imputed gross rental value of farm dwellings. 4/ Exctudes capital consumption, periquisities to hired labor, & farm household expenses. 5/ Excludes farm households. Total may not add because of rounding. F = forecast. — = not available.

Information contact Robert McElroy (202) 219-0800.

Table 33.—Balance Sheet of the U.S. Farming Sector

					Calend	ar year 1/						
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	19	991 F
						\$ billion						
Assets												
Real estate	785.6	750.0	753 3	661.7	58.0.1	542.2	578.6	599.4	605.1	618	620	to 630
Non-real estate	196.8	195.6	191.9	196.9	187.4	182 1	195.3	203. 6	212.0	220	218	to 228
Livestock & poultry Machinery & motor	53,5	53.0	49.5	49.5	46.3	47.8	58.0	82.2	66.2	71	70	to 74
vehicles	87.0	87.5	87.4	86.0	83.0	81.9	79.4	80.0	83.8	86	85	to 89
Crops stored 2/	29.0	26.1	24.0	26.2	22.9	15.0	19.5	21.9	22.6	23	21	to 24
Purchased Inputs		_		2.6	1.3	2.0	3.3	3.4	2.8	3	2	to 4
Financial assets	27.3	29.0	30.9	32.6	33.1	34.4	35.1	35.5	36.6	37	36	to 40
Total farm assets	982.4	945.6	945.2	858.6	773.5	724 3	773.9	803.0	817.1	838	845	to 855
Liabilities												
Real estate debt 3/	98.7	101.8	103.2	106.7	100.1	90.4	82.4	77.6	75.3	74	73	to 77
Non-real estate debt 4/	83.6	87.0	87.9	87.1	77.5	66.6	62.0	61.7	61.8	65	63	to 67
Total farm debt	182.3	188.8	191.1	193.8	177.6	157.0	144.4	139.4	137.1	139	137	to 143
Total farm equity	800.0	750.0	754.1	664.8	595.9	567.3	629.5	663.6	680.0	699	705	to 715
						Percent						
Dalastad satisa												
Selected ratios Debt-to-assets	10.0	00.0						47.4	4-0		4.0	
Debt-to-assets	18. 6 22.8	20.0	20.2	22.6	23.0	21.7	18.7	17.4	16.8	17	18	to 17
Debt-to-net cash income	556	24.9 498	25.3	29.2	29.8	27.7	22 9	21.0	20.2	20	19	to 21
Sopt-10-net cami income	200	490	424	530	371	336	257	240	251	240	240	to 260

^{1/} As of Dec. 31. 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC. 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes. F = forecast.

Information contacte: Ken Erickson or Jim Ryan (202) 219-0798.

Table 34.—Cash Receipts From Farm Marketings, by State

		Livestock &	s products			C	rops 1/			1	Total 1/	_
Region & State	1989	1990	Apr 1991	May 1991	1989	1990	Apr 1991 Ilion 2/	May 1991	1989	1990	Apr 1991	May 1991
NORTH ATLANTIC Maine New Hampshire Vermont Massachusetts	216 65 379 113	220 63 398 116	18 .6 30 10	18 6 31 10	228 73 50 321	240 71 49 303	26 8 9, 21	16 5 5 17	444 139 420 434	460 134 447 418	44 13 38 31	33 11 36 28
Rhode Island Connecticut New York New Jersey Pennsylvania	13 ,186 1,937 197 2,611	13 196 1,983 196 2,714	15 148 16 210	1 15 154 17 214	65 240 917 464 992	58 250 1,023 452 1,053	6 24 83 40 86	5 18 70 38 72	78 428 2.854 662 3,602	71 446 3,006 647 3,767	7 38 230 57 295	33 224 54 286
NORTH CENTRAL Ohio Indiana Illimois Michigan	1,698 1,826 2,251 1,311	1,836 2,060 2,477 1,398	135. 150 197 104	135 156 197 104	2,088 2,456 4,727 1,611	2,335 2,871 5,461 1,785	154 1 6 4 434 117	114 148 305 91	3,787 4,281 6,979 2,923	4,172 4,931 7,938 3,183	288 315 631 221	250 304 502 195
Wisconsin Minnesota Iowa Missouri	4,350 3,693 5,293 2,169	4,581 3,758 5,882 2,271	349 283 422 174	368 301 396 151	1,050 2,620 3,755 1,751	1,125 3,253 4,437 1,668	48 201 348 97	51 201 301 78	5,400 6,513 9,049 3,920	5,708 7,011 10,319 3,939	396 484 770 271	419 502 697 229
North Dakota South Dakota Nebraska Kansas	689 2,031 5,646 4,416	813 2,313 6,037 4,898	65 145 429 433	48 148 453 422	1,483 951 3,080 2,132	1,724 1,036 2,808 2,099	95 51 215 104	55 117 81	2,152 2,982 8,728 6,548	2, 537 3,349 8,845 6,99 5	161 196 645 537	105 201 5 70 5 03
SOUTHERN Delaware Maryland Virginia West Virginia	503 859 1,345 250	460 828 1,379 269	39 67 115 23	43 69 102 21	159 477 694 60	184 517 741 70	10 56 28 2	8 32 24 2	662 1,336 2,039 310	844 1,345 2,120 338	49 123 143 26	51 100 127 23
North Carolina South Carolina Georgia Florida Kentucky Tennessee	2,510 554 2,281 1,215 1,658 1,082	2,653 577 2,268 1,260 1,698 1,111	211 48 164 92 93 83	212 46 176 97 84 76	2,082 680 1,626 5,031 1,266 863	2,214 599 1,574 4,448 1,400 928	71 22 74 772 33 41	79 23 73 624 31 32	4,593 1,235 3,908 6,246 2,924 1,946	4,867 1,176 3,842 5,708 3,098 2,039	282 70 238 864 126 124	291 69 249 721 115 108
Alabama Mississippi Arkansas Louisiana Oklahoma Texas	1,975 1,295 2,861 614 2,377 6,861	2,083 1,322 2,706 637 2,363 7,712	161 100 217 49 126 681	182 109 212 50 159 728	696 981 1,496 1,094 1,137 4,063	655 1,111 1,553 1,264 1,191 4,268	37 56 42 40 68 220	35 38 34 38 52 263	2,671 2,276 4,157 1,708 3,515 10,923	2,737 2,433 4,259 1,921 3,554 11,981	198 156 258 88 194 901	197 145 246 86 211 991
WESTERN Montana Idaho Wyoming Colorado	929 1,084 664 2,649	864 1,154 610 3,029	65 92 31 216	54 89 28 226	625 1,662 163 1,321	742 1,781 157 1,184	55 97 7 64	46 73 3 59	1,554 2,745 827 3,969	1,606 2,935 767 4,213	120 190 38 280	101 162 31 285
New Mexico Arizona Utah Nevada	974 744 567 142	1,046 819 576 218	64 58 48 19	68 86 39 21	485 1,182 186 102	483 1, 048 179 115	18 58 17 9	30 132 8 5	1,459 1,926 755 244	1,529 1,865 765 333	82 116 65 28	98 218 47 26
Washington Oregon California Ataska Hawaii	1,233 738 5,193 9	1,39 6 755 5,515 8 88	107 58 414 1	118 58 495 1	2,457 1,548 12,857 20 493	2,420 1,557 13,344 19 499	199 89 848 1 41	152 69 1,164 1 41	3,689 2,285 16,050 29 585	3,816 2,312 18,859 27 588	306 147 1,262 2 48	270 127 1,659 2 49
UNITEO STATES	84,131	89,623	6,787	6,979	78,761	80,364	5,405	5,014	160,693	169.987	12,193	11,992

^{1/} Sales of farm products include receipts from commodities placed under CCC loans minus value of redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 219-0806.

Table 35.—Cash Receipts From Farming

		Annual					1990	1991				
	1985	1986	1967	1988	1989	1990	May	Jan	Feb	Mar	Apr	Мау
						\$ million						
Farm marketings & CCC loans*	144.114	135,303	141,759	151,082	160,893	169.987	12,281	15,548	11,161	12.722	12,193	11.992
Livestock & Products	69,822	71.553	75.994	79.437	84.131	89,623	7.334	7.520	6.571	7,382	6,787	6,979
Meet enimale	38,550	39,081	44.478	46,492	46,857	51.677	4,053	4,691	4,108	4,422	4.003	4,023
Dairy products	18.055	17.724	17.727	17,641	19,398	20.199	1.808	1.456	1,345	1.489	1.479	1.559
Poultry & eggs	11,209	12.701	11.516	12,868	15.372	15.270	1.300	1.180	1.080	1.296	1,139	1,225
Other	2.008	2.048	2.274	2.438	2.507	2.477	173	103	169	175	198	171
Crope	74.293	63,749	65,764	71,645	76,781	80.364	4.947	8.026	4.491	5.340	5,405	5.014
Food grains	8,990	5,741	6,776	7.467	8.247	7.876	349	735	251	302	291	304
Feed crops	22.591	16.911	14.576	14.298	17.001	19.116	1,214	2,461	1,178	1,356	1,308	1,092
Cotton (lint & seed)	3.687	3.371	4.189	4.546	5,040	5,234	148	758	377	252	204	150
Tobacco	2.699	1.894	1,818	2,083	2.415	2.738	0	421	41	1	18	0
Oil-bearing crops	12,475	10,514	11,283	13.500	11.866	12,403	581	1,464	742	846	652	518
Vegetables & melons	8,672	8,865	9.902	9.787	11.461	11.533	1.260	820	696	1,129	1,260	1,654
Fruite & tree nute	6,946	7.252	8.062	9.204	9,257	9,306	407	640	487	465	420	342
Other	8.333	9.101	10,161	10,760	11.415	12,160	1.011	727	718	988	1.253	953
Government payments	7,704	11.813	16.747	14,480	10,687	9.298	652	63	493	1.745	1,238	1,054
Total	151,818	147,116	158,508	165,582	171,780	179,285	12.933	15.599	11,654	14.467	13,431	13,046

[&]quot;Receipts from loans represent value of commodities placed under CCC loans minus value of redemptions during the month.

Information contact: Roger Strickland (202) 219-0808

Table 36.—Farm Production Expenses_

					Cal	ender year							
	1981	1982	1983	1984	1985	1986 \$ million	1987	1988	1989	1990	1	1991 F	
Feed Livestock Seed Farm-origin inputs	20.855 8,999 3,428 33,282	18.592 9.684 3,172 31.447	20,371 8,818 2,690 31,879	20,23 9 9,486 3,386 33,112	17.247 9.184 3.129 29.559	17.875 9,758 3,188 30,821	17,958 11,842 3,259 33,059	20,620 12,812 3,268 38,700	22,722 12,983 3,733 39,438	22,000 14,000 4,000 40,000	21,000 13,000 3,000 38,000	to 15,000 to 5,000	
Fertilizer Fuels & oils Electricity Pesticides Manufactured inputs	9.409 8,570 1,747 4,201 23,927	8.018 7,734 2,041 4,282 22,078	6.959 7,211 1.982 3.870 20.022	8,574 7,296 2,060 4,688 22,618	7,506 6,436 1,878 4,334 20,153	6.813 5.310 1,795 4,324 18,242	6,453 4,957 2,156 4,512 18,077	6,775 4,921 2,231 4,443 18,370	7.554 5,321 2.100 5.721 20,697	7.000 6,000 2.000 6,000 21.000	6,000 5,000 2,000 5,000 20,000	to 3.000 to 7.000	
Short-term Interest Real estate interest 1/ Total interest charges	10.722 9,142 19,864	11,34 9 10,481 21,830	10.615 10,815 21,430	10,398 10,733 21,129	8,735 9,878 18,613	7, 92 0 9,131 17,052	7.305 8,187 15.492	7.287 7,885 15.172	7,480 7,643 15,123	8,000 7,000 15,000	7,000 8,000 14,000		
Repair & maintenance 1/2/ Contract & hired labor Machine hire & custom work	7.021 8.931 1,984	6.428 10.075 2,025	6.529 9,725 2,213	6,730 9,729 2,566	6.556 9.799 2,354	6.485 9.890 2,099	6,82 8 10,821 2,105	6,889 11,202 2,271	7.794 11,887 2,739	8.000 12.000 3.000	8,000 11.000 2,000	to 9,000 to 13,000 to 4,000	
Marketing, storage, & transportation Misc. operating expenses 1/ Other operating expenses	3,523 6,909 28,369	4.301 7.262 30.089	3.904 9.089 31,4 5 1	4,012 9,136 32,173	4.127 8.198 31,034	3,652 8,054 30,180	3,988 8,902 32,644	3.281 9.357 33.000	4,214 9,857 36,491	5,000 10,000 38,000	4,000 10,000 37,000	to 6,000 to 12,000 to 41,000	
Capital consumption 1/ Taxes 1/	23.573 4.246	24,287 4,050	23.873 4.123	21,623 4,180	19,648 4,484	17.709 4,549	16,475 4,982	16.716 5.090	17.310 5,328	18,000 6,000	17,000 5,000	1o 20,000 to 8,000	
Net rent to honoperator landlord Other overhead expenses	6,184 34,003	6,174 34,511	5.110 33.106	8,978 34,787	8.435 32.587	6.951 29(209	6, 96 4 28,420	7.014 28.820	8.181 30,819	8,000 32,000	8,000 31.000	to 9,000 to 34,000	
Total Production expenses	139,444	139,954	137,897	143.819	131.026	125.503	127,693	132.063	142,566	146.000	145,000	10 150,000	

^{1/} Includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses include other livestock purchases & dairy assessments. Totals may not addibecause of rounding. F = lorecast.

Information contacts: Chris McGath (202) 219-0804, Robert McElroy (202) 219-0800.

Table 37.—CCC Net Outlays by Commodity & Function

					Fis	cal year					
COMMODITY/PROGRAM	1983	1984	1985	1986	1987	1988	1989	1990	1991 E	1992 E	
Feed grains					\$1	nillion					
Corn	5,720	-934	4,403	10,524	12,346	8,227	2,863	2,450	2.411	3,811	
	814	78	463	1,185	1,203	764	467	361	261	315	
Grain eorghum	268	89	336	471	394	57	45	-93	62	148	
Barley			2	28	17	-2	1	-5	14	26	
Oats	11	5	7	5	7	7	8	8	7	8	
Corn & oat products	2	6				9,053	3.384	2.721	2,755	4,308	
Total feed grains	6.815	-758	5.211	12,211	13,967	8,053	3,304	2.72	2,700	4,500	
Wheat	3,419	2.536	4,691	3,440	2,836	678	53	806	2,817	1,863	
Rice	684	333	990	947	906	128	631	667	758	698	
Upland cotton	1,383	244	1.553	2.142	1,788	666	1,461	-79	392	431	
Tobacco	880	348	455	253	-346	-453	-367	-307	-237	-79	
Dairy	2,528	1,502	2,085	2,337	1,166	1,295	679	505	783	419	
Soybeans	288	-585	711	1,597	-478	-1,678	-86	5	102	20	
Peanuts	-6	1	12	32	8	7	13	1	-4	-3	
	40	10	184	214	85	-248	-25	15	-2	-27	
Sugar	49	10		89	73	100	42	47	23	.18	
Honey	48	90	81		152	1/ 5	93	104	173	198	
Wool	94	132	109	123	102	17 0	03	10-4	110	100	
Operating expense 3/	328	362	348	457	535	614	620	618	634	724	
Interest expenditure	3,525	1,064	1,435	1,411	1,219	425	98	632	757	573	
Export programe 4/ 1989/89 Disaster/	398	743	134	102	278	200	-102	-34	567	1,322	
	0	0	0	0	0	0	3,919	2/ 161	148	2	
Livestock Assistance Other	-1,542	1.295	-314	488	371	1,865	110	609	905	1,448	
						40.454	10.523	6,471	10,569	11,913	
Total	18,851	7.31 5	17,683	25,841	22,408	12.461	10,523	0,471	(0,508	11,010	
FUNCTION										101	
Price-support icans (net)	8,438	-27	6,272	13,628	12.199	4,579	-926	-399	267	434	
Direct payments 5/											
Deficiency	2,780	612	6,302	6.166	4.833	3,971	5,798	4,178	0,203	6,695	
Diversion	705	1,504	1,525	64	382	8	-1	0	0	0	
Dairy termination	0	0	0	489	587	260	168	189	97	1	
Other	0	0	0	27	60	0	42	3	14	16	
Disaster	115	1	0	0	0	е	4	0	0	0	
Total direct payments	3,600	2,117	7,827	6,748	5,862	4,245	6,011	4,370	0.314	8,712	
	0	0	0	0	0	0	3,386	2/ 5	8,	0	
1988/89 crop disaster	U	U	0		0	Ů	91000	_ ,	-2		
Emergency livestock/				~	0	31	533	158	138	2	
forage assistance	0	0	0	0		-1.131	118	-48	594	534	
Purchases (net)	2,540	1,470	1,331	1,870	-479	-1.131	110	70	207		
Producer storage					200	050	474	105	1	26	
payments	964	268	329	485	832	658	174	185	1	40	
Processing, storage.				4		a aaan	055	047	200	213	
& transportation	665	639	667	1,013	1,659	1,113"	659	317	299	213	
	328	362	348	457	535	814	620	618	634	724	
Operating expense 3/		4.004	1,435	1,411	1,219	425	96	632	757	573	
Operating expense 3/	3,525	1,064	1,400	71-4-4	-						
Interest expenditure	3,525 398	743	134	102	278	200	-102	-34	587	1,322	
						200 1,727	-102 -46	-34 669	567 990	1,322 1,373	

^{1/} Flecal 1988 wool & Mohair program outlays were \$130.835,000 but include a one-time advance appropriation of \$126,108.000, which was recorded as a wool program receipt by Treasury. 2/ Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates & were not recorded directly as disaster assistance outlays. 3/ Does not include CCC Transfers to General Sales Manager. 4/ Includes Export Guarantee Program, Export Guarantee Program, Credit Reform, Direct Export Credit Program, Market Promotion Program, & CCC Transfers to the General Sales Manager. 5/ Includes cash payments only. Excludes payment-in-kind in flecal 83–85 & generic certificates in flecal 86–90. E = Estimated in the flecal 1992 Mid-Session Review based on June, 1991 supply & demand estimates. Minus (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 447-5148.

Food Expenditures

Table 38.—Food Expenditure Estimates

		Annual			1991		11	991 year-to	-dale
	1988	1989	1990	May	June P	July P	May	June P	July P
				\$ bil	llion				
Sales 1/ Off-premise use 2/ Meals & snacks 3/	255.7 196.5	272.1 205.9	28 6 .3 220.3	25.8 20.1	25.0 20.4	25.4 20.6	118.8 91.2	143.8 111.6	1 69 .3 132.2
0-144				1990	\$ billion				
Sales 1/ Off-premise use 2/ Meals & snacks 3/	290.2 215.2	289.5 215.6	286.2 220.2	24.9 19.5	24.1 19.7	24.7 19.9	115.2 89.1	139.3 108.8	164.1 128.7
			Pe	rcent chan	ge from yea	r earlier (\$ bi	.)		
Sales 1/ Off-premise use 2/ Meals & enacks 3/	4.8 8.7	6.4 4.8	5.2 7.0	5.5 5.5	1.6 4.4	4.3 4.8	3.4 3.7	3.1 3.8	3.2 4.0
			Pe	rcent chan	ge from yea:	earlier (199	0 \$ bil.)		
Sales 1/ Off-premise use 2/ Meals & spacks 3/	0.6	-0.2 0.2	-1.1 2.1	0.9	-0.6 1.0	1.6 1.4	-0.4 0.0	-0.8 0.1	-0.5 0.4

1/ Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production. 3/ Excludes donations, child nutrition subsidies, & meals furnished to employees, patients, & inmates. P = preliminary.

NOTE: This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons: (1) this series includes only food not alcoholic beverages & per food which are included in PCE; (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates; (3) this series reports sales only, but PCE includes food produced & consumed on farms & food furnished to employees; (4) this series includes all sales of meals & snacks. PCE includes only purchases using personal funds, excluding business travel & entertainment. For a more complete discussion of the differences, see "Developing an Integrated Information System for the Food Sector, "Agr.—Econ. Rpt. No. 575, Aug 1987.

Information contact: Aiden Manchester (202) 219-0880.

Transportation

Table 39.—Rail Rates; Grain & Fruit/Vegetable Shipments.

	Annual			1990			1991			
	1988	1989	1990	Jun	Jan	Feb	Mar	Apr	May	June
Rail freight rate Index 1/ (Dec. 1984=100)										
All products	104.8	106.4	107.5	107.1	108.6	108.9	109.7 P	109.6 P	109.4 P	109.5 P
Farm products	105.6	108.4	110.4	109.5	111.5	111.6	112.3 P	112.4 P	111.7 P	111.8 P
Grain	105.4	108.7	110.1	109 2	111.0	111.0	111.8 P	112.0 P	111.1 P	111.2 P
Food products	103.2	103.B	105.4	104.5	107.6	107.7	108.1 P	108.3 P	108.1 P	108.2 P
Grain shipments										
Rall carloadings (1,000 cars) 2/	30.7	28.4	27.6	28:1	26.5 P	00 a D	28.1 P			
Barge shipmente (mil. ton) 3/	3.2	3.3	3.8	4.5		28.6 P 2.0		24.9 P	20.8 P	24.5 P
Fresh fruit & vegetable shipments 4/5/	0.2	9.9	3.0	4.5	1.6	2.0	3.1	4.0	3.7	3.6
Piggy back (1,000 cwt)	535	502	421	635	277	010	077	040	000	700
Rail (1,000 cwt)	607	600	532	876	495	316 410	277 407	248	320	538
Truck (1,000 cwt)	9,679	9,745	P.582	13,609	8,251			334	527	773
	0,070	0,740	W.582	13,000	6,231	8.753	9,110	9,841	9,465	11,329
Cost of operating trucks hauling produce 6/										
Fleet operation (cts/mile)	118.4	123.4	130.5	125.8	135 9	130.5	128,5	128.1	127.6	124.6

1/ Department of Labor, Bureau of Labor Statistics. 2/ Weekly average; from Association of American Railroads. 3/ Shipments on lilinois & Mississippi waterways, U.S. Corps of Engineers. 4/ Weekly average; from Agricultural Marketing Service, USDA. 5/ Preliminary data for 1990 & 1991. 6/ Agricultural Marketing Service, USDA.

Information contact: T.Q. Hutchinson (202) 219-0840,

Indicators of Farm Productivity

Table 40.—Indexes of Farm Production Input Use & Productivity

(See the June 1991 issue)

Information contact: Jim Hauver (202) 219-0432.

Food Supply & Use

Table 41.—Per Capita Consumption of Major Food Commodities¹

(See the August 1991 issue)

Information contact: Judy Jones Putnam (202) 219-0870.

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